LEISTER

PLASTIC WELDING

Flooring

Swiss made

Flooring and Interior Decoration

Everything for floor welding

www.cmc.pt

We know how.

Dear Leister customers

Vinyl sheet flooring installers need reliable welding tools, and reliable results are a must as it is not cost effective to test every welded seam. Leister floor tools and automatic welders provide the highest quality repeatable results by supplying constant temperature, pressure, and speed during operation.

A floor that is properly welded is critical when it comes to hygienically sensitive surfaces. This is why most floors in public buildings such as hospitals or schools need to be welded properly, as well as in public transportation facilities such as planes, trains, or buses. A high-quality weld is also required in residential construction or offices in order to satisfy design requirements or to achieve a specific design.

Leister's ergonomic floor tools will support you in any situation and guarantee reliable and economic operation. We maintain a global and close-knit service and distribution network that provides fast, reliable service.

Over the following pages, please view our extensive flooring installation tool selection through which Leister can support you in your work.

I hope you enjoy reading our brochure!

Silvan Horand
Flooring Product Manager

Welding and Pointing

For flooring applications with surface areas that have hygienic requirements which are also exposed to moisture (wet rooms) or in rooms subject to intensive wet cleaning, properly welded floors are a must.

The Welding Process

Adhesive recommended by the manufacturer is required installing linoleum and rubber. Usually 3 to 5 mm welding rod of the same material, that is recommended by the manufacturer is used for welding PVC or TPU surfaces.
Before welding, the seam edges are grooved to approx. 2/3 of the thickness of the surface and then heat seam welded with the welding rod.
It is important that the welding rod is fully melted into the milled surface created by the groover. The rod is then trimmed level to the surface in two steps using the Leister quarter-moon knife: In the first stage, the rod is trimmed using the half moon knife and slide immediately after welding/pointing. A second pass is made with the knife once the welded seam has completely cooled down. This prevents the welding rod from being trimmed below the level flooring material and produces an even, flush surface.

Welding in 4 Steps

Grooving
The flooring material must be glued to the substrate using the adhesive recommended by the manufacturer.

Caution: Before grooving, the adhesive between the substrate (screed) and the floor covering must be dry.

A groove is then milled in the floor covering using the GROOVER.

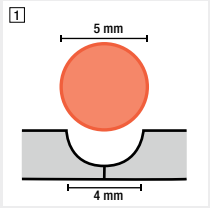
Caution: Work step by step: Groove first, then weld.

Different blades are used depending on the floor welding application.

Caution: This will depends upon the welding and the properties of the flooring material.

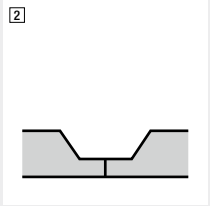
The cutting depth is determined based on the following (Fig. 1):

- A maximum of half of the welding rod diameter.
- No more than 2/3 of the flooring material thickness



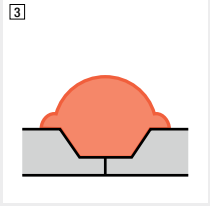
Welding – preparation
The milled groove must be positioned in the center of the seam, otherwise the weld will not be adequate (Fig. 2).

Caution: Before beginning the weld, a separate weld test must always be performed to verify the heat. speed and temperature settings are correct for each application.



The welding parameters must be set so that a weld bead forms (Fig. 3).

Material	Manual welding temperature	Automatic welding temperature
Linoleum	Approx. 300–400°C	Approx. 400–450°C
PUR/TPU:	Approx. 350–400°C	Approx. 450–500°C
PVC:	Approx. 350–450°C	Approx. 450–550°C



A welding nozzle with a narrow air outlet must be used in order to avoid any impairment to the surface covering.

Caution: An impairment only becomes visible after several cleaning cycles.

Short welded seams a more easily welded with a TRIAC ST/AT or the HOT JET S than a MINIFLOOR or UNIFLOOR machine..

Welding – implementation

Welding with an automatic welder (UNIFLOOR 500 / MINIFLOOR)
Is recommended for time savings and precise / repeatable welded seam results.

- Constant (high) speed
- Constant pressure
- Constant temperatures (UNIFLOOR 500 / MINIFLOOR with TRIAC AT)

Manual welding (TRIAC / HOT JET S / GHIBLI)

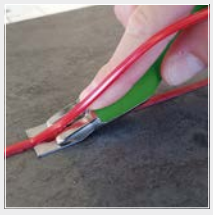
Recommended for short grooves, repairs, or transitions
For a consistent weld quality, the following must be taken into consideration:

- As constant a speed as possible
- As constant a pressure as possible
- Constant temperature (TRIAC AT)

Cutting – step 1

The first detachment procedure takes place when the welding rod is not yet cool using a sharpened quarter-moon knife and a slide attachment.

Caution: It is essential that the welding wire is cut in two stages.
This prevents the weld from sagging below the level surface. (Fig. 4).



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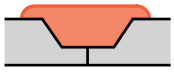


Cutting – step 2

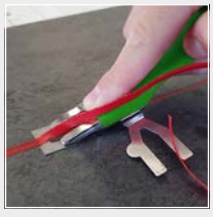
The second trimming procedure only takes place when the welded seam has cooled down. The cut is made flush to the surface covering using the quarter moon knife again.

The second cut takes place after the first cut and after a rest period.

- Rest period for linoleum — approx. 15 minutes
- Rest period for PVC — approx. 5 minutes

The surface is now able to bear a load and can be cleaned (Fig. 5).

- Rest period for linoleum until it can bear a full load — approx. 12 hours
- Rest period for PVC until it can bear a full load — approx. 1 hour



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The benefits of Leister at a glance:

Robust device components

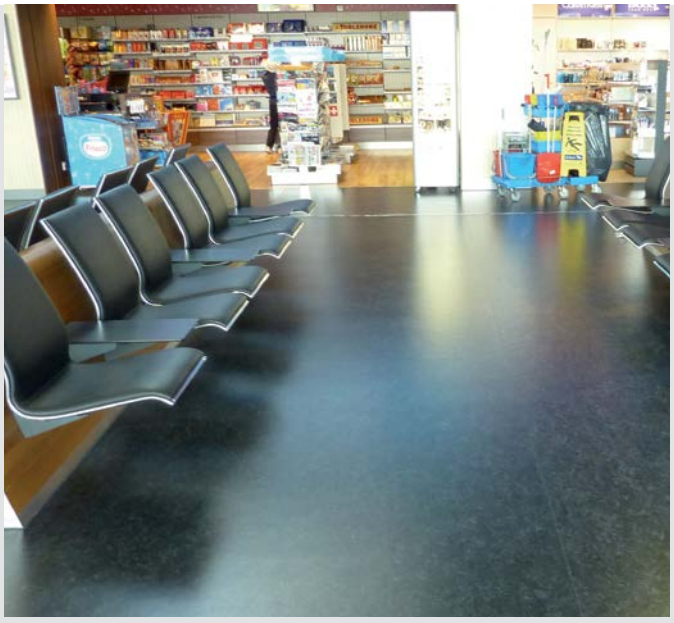
- Lower cost of ownership due to maintenance-free brushless drive and blower motors
- Durable high quality heating elements
- Corrosion-resistant weights

Performance

- Faster welding speeds and precise repeatable results
- An automatic welder can also shorten the process by eliminating steps in the process
- Leister tools with digital settings compensate for power quality issues and eliminate power problems that are typical at industrial locations and construction sites.

Service

- Support and device demonstration by our field service representatives
- Everything available from a single source thanks to a wide product range
- Tight distribution network with short delivery times
- Leister guarantees for 7 years after a tool is discontinued
- Fast repair and service



Promotes the life of the floor.

For aseptic applications.

Suitable for frequent cleaning.

Overview

Hot-air hand tools	8
Flooring	9

Hot-Air Hand Tools

TRIAC AT	10 / 11
TRIAC ST	11
ELECTRON ST	12 / 13
HOT JET S	15

Flooring / Interior Decoration

UNIFLOOR 500	16 / 17
MINIFLOOR Drive Unit	18 / 19
GROOVER 500-LP	20 / 21
GROOVER	22
GROOVY	23
General accessories	24

Overview
Hot-air hand tools

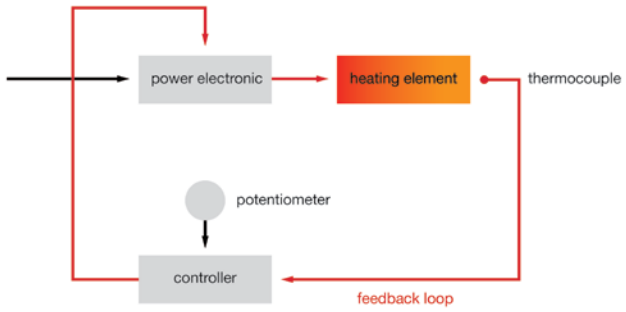
				
Typ	**TRIAC AT**	**TRIAC ST**	**ELECTRON ST**	**HOT JET S**
Area of application	for welding elastic floor coverings	for welding elastic floor coverings	for welding elastic floor coverings	for welding elastic floor coverings
Starting welding parameters manual weld*	Linoleum: Approx. 300-400°C PUR/TPU: Approx. 350-400°C PVC: Approx. 350-450°C	Linoleum: Approx. 300-400°C PUR/TPU: Approx. 350-400°C PVC: Approx. 350-450°C	Linoleum: Approx. 300-400°C PUR/TPU: Approx. 350-400°C PVC: Approx. 350-450°C	Linoleum: Approx. 300-400°C PUR/TPU: Approx. 350-400°C PVC: Approx. 350-450°C
Electronic	**Close loop**	**Open loop**	**Open loop**	**Open loop**
Catalog page	10 / 11	11	12 / 13	15

*The parameters listed are purely reference values (room temperature 20°C). A test weld which takes into account the information provided by the material manufacturer is absolutely essential.

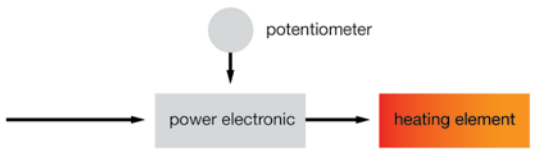
Closed-loop system

The closed-loop technology means that the parameters are kept constant at all times, even in the event of voltage fluctuations, enabling reliable welding in the building site environment.

Closed loop System



Open loop System



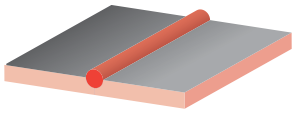
Overview Flooring

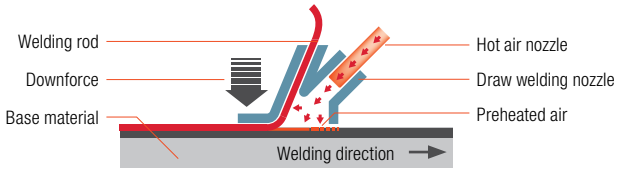
Typ		GROOVER 500-LP	GROOVER		MINIFLOOR		UNIFLOOR 500	
Area of application		Cordless Grooving machine for elastic floor coverings	Grooving machine for elastic floor coverings		Drive unit for welding elastic floor coverings		Welder for welding elastic floor coverings	
Groove wide	mm	2.8 / 3.5	2.5 / 2.8 / 3.5 / 4.0		2.5 - 4.0		2.5 – 5.0	
Groove depth	mm	0.0 - 6.0	0.0 - 4.0		2.5 - 4.0		2.5 – 4.0	
Speed	m/min		Phase 1 (Linoleum) 4 - 6	Phase 2 (PVC, TPU, PU) 8 - 12	0.5 - 4.5		0.7 – 7.5	
Temperature	°C	-	-		40 - 620 (with TRIAC AT)		100 – 560	
Air flow range	%	-	-		20 - 100 (with TRIAC AT)		45 – 100	
Voltage	V	120 / 230	120 / 230		100 - 230		230 / 120 / 100	
Frequenz	Hz	-	50 / 60		50 / 60		50 / 60	
Power	W	90	Phase 1 (Linoleum) 350	Phase 2 (PVC, TPU, PU) 700	drive unit 5	with TRIAC AT 1605	2300 / 1800 / 1500	
Weight	kg	5.5	6.7		5.3	6.6	15.5	
Size	mm	445 x 212 x 336	240 x 205 x 255		310 x 225 x 245	495 x 225 x 295	562 × 289 × 440	
Cable length	m	-	3		3		3	
Startup parameters*								
Materials		Linoleum, PVC, TPU, PU	**Linoleum** (Phase 1)	**PVC, TPU, PU** (Phase 2)	**Linoleum**	**PVC, TPU, PU**	**Linoleum**	**PVC, TPU, PU**
Speed	m/min	-	5	10	1.5	1.5	2.2	2.5
Temperature	°C	-	-	-	400 - 450	500 - 550	400 – 450	450 – 550
Air flow range	%	-	-	-	100%	100%	100%	100%
Catalog page		20 / 21	22		16 / 17		18	

*The parameters listed are purely reference values (room temperature 20°C). A test weld which takes into account the information provided by the material manufacturer is absolutely essential.

Weld Geometries / Welding Methods

Floor seam





Draw Welding (Speed Welding)
Hand tools

This welding method requires the use of a speed welding nozzle. Preheat the surfaces to the apropriate temperature. The surfaces are plasticized by hot air and joined under consistent downward pressure.

TRIAC AT: Robust and intelligent.

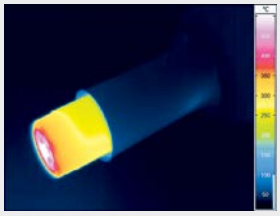
The TRIAC AT is an intelligent hot air handtool designed for welding and shrinking plastic and therefore the perfect instrument at construction sites. It meets the needs of a demanding professional: ergonomic design, safe handling, modern look. Every tool is subject to extensive quality control before leaving the factory in Switzerland. This high-quality hot air handtool is ready for every application and can handle any number of universal uses.

Product advantage

1

Energy saving:
Saves up to 40% energy if ECO is activated. The built-in motion sensor knows when the tool is not in operation and reduces the blower level to its minimum speed, which means up to 40% energy saving.

2



Always keep your cool:
Protective tube with active cooling for more safety at work.

3

Key Lock:
The easily activated key lock (e-Drive button lock/unlock) prevents accidental parameter adjustment.

4

Voltage monitoring:
The TRIAC AT shows, at the push of a button, the current mains voltage (quality checking before the welding process).

5

Robust air filters:
The air filters which are located on either side can be easily removed and cleaned. This ensures optimal air flow and maximum performance.

Best protection:
The filters offer active protection against moisture and dust.

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.

Hot-air hand tool

TRIAC AT

- Suitable for the work site
- Closed loop controlled temperature
- Open loop controlled air volume
- Intelligent «e-Drive» operating unit with key Lock
- Restart protection function
- ECO Energy saving function

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

Article No.:

141.314	TRIAC AT 230 V / 1600 W, EU-plug, for push-fit nozzles
141.319	TRIAC AT 120 V / 1600 W, CEE ye-plug, for push-fit nozzles
141.320	TRIAC AT 230 V / 1600 W, UK-plug, for push-fit nozzles
141.321	TRIAC AT 230 V / 1600 W, AUS-plug, for push-fit nozzles
142.737	TRIAC AT 230 V / 1600 W, EU-plug, for screw-on nozzles
148.005	TRIAC AT 220 V / 1600 W, KR-plug, for push-fit nozzles

Hot-air hand tool

TRIAC ST

- 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

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

Article No.:

141.227	TRIAC ST 230 V / 1600W, EU-plug, for push-fit nozzles
141.308	TRIAC ST 120 V / 1600W, CEE ye-plug, for push-fit nozzles
141.309	TRIAC ST 230 V / 1600W, UK-plug, for push-fit nozzles
141.310	TRIAC ST 230 V / 1600W, AUS-plug, for push-fit nozzles
144.013	TRIAC ST 230 V / 1600W, EU-plug, for screw-on nozzles
153.891	TRIAC ST 220 V / 1600W, KR-plug, for push-fit nozzles

ELECTRON ST – Strong, compact and handy

The new ELECTRON ST is a real powerhouse among Leister's hand tools. The appearance of this tool has been modeled after the new TRIAC range. For the user, this means improved ergonomics and, as a result, the ability to work in more comfort. Existing ELECTRON nozzles fit the new model.

Product advantages

1

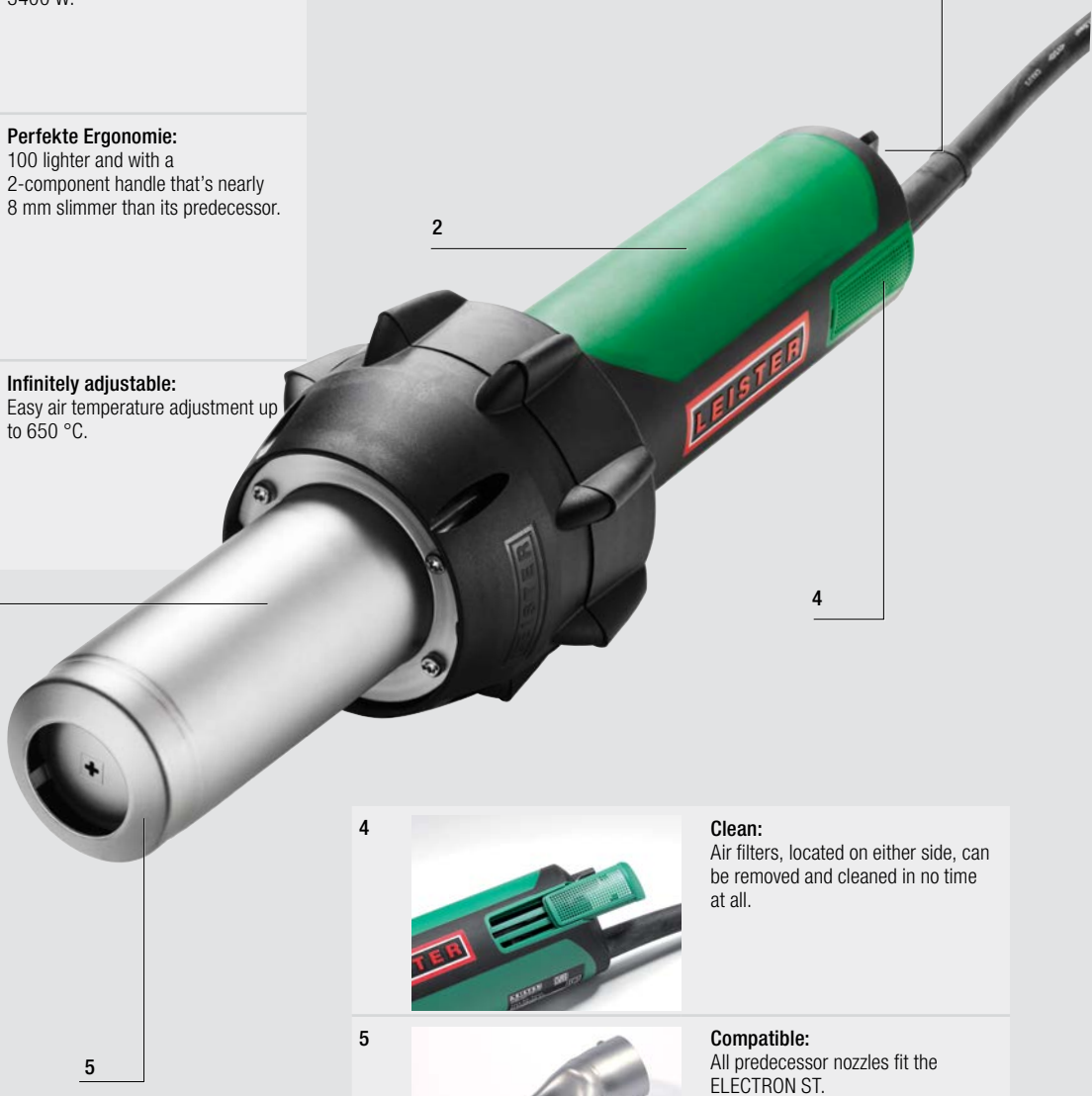
Powerful:
Suitable for any application thanks to its outstanding power rating of up to 3400 W.

2

Perfekte Ergonomie:
100 lighter and with a 2-component handle that's nearly 8 mm slimmer than its predecessor.

3

Infinitely adjustable:
Easy air temperature adjustment up to 650 °C.



4

Clean:
Air filters, located on either side, can be removed and cleaned in no time at all.

5

Compatible:
All predecessor nozzles fit the ELECTRON ST.

Hot-air hand tool

ELECTRON ST

- Suitable for construction sites
- Leister's most powerful hand tool
- Easy-clean air filter
- Carbon stop and heating element protection provide automatic protective measures
- Sturdy tool case supplied

Technical data		
Voltage	V~	230 / 230 / 200 / 120
Frequency	Hz	50 / 60
Power	W	2300 / 3400 / 3000 / 2400
Temperature	°C	40 – 650
Air volume (20°C)	l/min	360 (700 at max. temp)
Dynamic pressure	Pa	3400
∅ Nozzle holder	mm	50
Emission	dB(A)	67
Size (L × ∅)	mm	338 × 90, handle ∅ 56
Weight	kg	1.1 (without power cord)
Conformity mark		CE
Approval mark		
Protection class II		

Article No.

145.567	ELECTRON ST, 230 V / 3400 W for push-fit nozzles with Euro plug
149.673	ELECTRON ST, 230 V / 2300 W for push-fit nozzles with Euro plug
145.563	ELECTRON ST, 120 V / 2400 W for push-fit nozzles with UK plug
145.568	ELECTRON ST, 230 V / 3400 W for push-fit nozzles with UK plug
154.839	ELECTRON ST, 220 V / 3400 W for push-fit nozzles with KR-plug

Accessories ELECTRON ST

	**107.270**	Wide slot nozzle 150 × 12 mm, push-fit
	**151.068**	Tool rest **(recommended)**
	**142.281**	Scraper nozzle
	**148.933**	Protective tube
		Heating elements **145.606** 230 V / 3300 W **149.675** 230 V / 2200 W **145.604** 120 V / 2300 W


LEISTER

HOT JET S: Small and powerful.

As the most compact hot-air hand tool from Leister, the HOT JET S' low weight of 600 grams (including cord and slim handle) ensures high-powered, fatigue-free welding.

Especially suited to facilitate tasks in difficult to access areas.

Hot-air hand tool

HOT JET S

- The smallest Leister hot-air hand tool
- Stepless, electronically controlled temperature
- Stepless, electronically controlled air flow
- Low noise
- Flexible, integrated tool stand

Technical data		
Voltage	V~	120 / 230
Frequency	Hz	50 / 60
Power	W	460 / 460
Temperature	°C	40 – 600
Air volume (20°C)	l/min	40 – 110 (200 at max. temp)
Pressure static	Pa	230 – 1600
∅ Nozzle holder	mm	21.3
Emission	dB(A)	59
Size (L × ∅)	mm	235 × 70, handle ∅ 40
Weight	kg	0.4 (without power cord)
Conformity mark		CE
Approval mark		
Protection class II		

Article No.:

100.648	HOT JET S, 230 V / 460 W, with Euro plug
100.862	HOT JET S, 120 V / 460 W, without plug
100.854	HOT JET S, 230 V / 460 W, with AUS plug
140.030	HOT JET S, 220V/ 460W for push-fit nozzles with KR-plug

Accessories HOT JET S

107.144 ∅ 5 mm, tubular nozzle, 15° angled

131.867 ∅ 5 mm, tubular nozzle, 90° angled

105.567 ∅ 5 × 150 mm extension nozzle, straight

D

105.431 3 mm speed welding nozzle, with small air-slide, push-fit on ∅ 5 mm tubular nozzle

105.432 4 mm speed welding nozzle, with small air-slide, push-fit on ∅ 5 mm tubular nozzle

105.433 5 mm speed welding nozzle, with small air-slide, push-fit on ∅ 5 mm tubular nozzle

MINIFLOOR – efficient and affordable for everyone!

The MINIFLOOR turns your hot-air hand tool into an automatic welder within seconds; increases the weld quality, facilitates work, and reduces time considerably. Its use is worthwhile from weld lengths of 1.20 m/4 ft., and thanks to its lightweight design of 5.3 kg/12 lbs., the MINIFLOOR can be transported effortlessly.

Hot-air welder

MINIFLOOR

1

Reverse compatibility: Thanks to the interchangeable inserts, even older TRIAC models can be connected without a hitch.

2

Tool-free assembly of the de-reeler: even if the de-reeler is missing you may count on hassle-free handling, as well as smooth feeding of the welding rod into the “air-slide” of the speed welding nozzle.

3

Incredibly fast: Despite its light-weight design, the MINIFLOOR offers a welding speed of about 2 m/6.5 ft per minute, nearly double the speed of manual welding.

4

The **quick-lock fastening system at the clamp allows for assembling / dismantling of the TRIAC** in a matter of seconds.
The power supply for the hand tool is integrated in the MINIFLOOR drive unit and you have the possibility to securely fasten the cable.

5

The individually-adjustable, start-up delay of the MINIFLOOR drive unit enables modificiation of the startup according to individual needs. The long guide ensures outstanding precision along the seam.

6

The **51 mm/2 inches minimum distance from the wall**, ensures trouble-free welding around con-struction pipes and L-skirts. Due to its compact height, the MINIFLOOR seamlessly welds beneath obstacles with a minimum clearance of 295 mm /12 inches.

The MINIFLOOR is ideal for short joints and small projects.

Professional, inexpensive, incredibly versatile: The new MINIFLOOR (TRIAC plus drive unit) for smart professionals.

Hot-air welder / drive unit

MINIFLOOR Drive Unit

- The only automatic welder with the possibility of connecting a hot-air hand tool in the simplest manner.
- Worthwhile from weld lengths of 1.20 m/4 ft.
- Swiss Quality you can rely on.
- Due to (51 mm/2 inches) minimum distance from the wall, there is only one required joint along the weld seam, and THAT saves time!
- Weighting in at 6.6 kg / 15 lbs (incl. TRIAC AT / nozzles) the MINIFLOOR is a lightweight and easily transportable solution.
- **NEW:** Improved directional stability!

Technical Data MINIFLOOR		Drive Unit only	with TRIAC AT
Voltage	V~	100 – 230	100 / 120 / 230
Frequency	Hz	50/60	50/60
Power	W	5	1600
Temperature	°C		40 – 620
Air flow range	%		20 – 100%
Drive speed	m/min	0.5 – 4.5	0.5 – 4.5
Control		Closed-loop	Closed-loop/Display
Blower			Brush motor
Welding seam	mm		2.5 / 3.5
Size (L × W × H)	mm	310 × 225 × 245	495 × 225 × 295
Weight	kg	5.3	6.6 (incl. Nozzles)
Conformity marks		CE	CE
Protection class I		⏚	⏚ | ⧈

Accessories MINIFLOOR Drive Unit

TRIAC AT / TRIAC ST
All models and part numbers can be found at page 10/11

154.266 Storage case MINIFLOOR

156.531 Carrying strap for Leister Case

154.723 Rubber pads for TRIAC-bracket (old generation ∅ 64 mm)

100.303 ∅ 5 mm, tubular nozzle, push-fit

Speed weld nozzle,
with small air-slide,
push-fit on ∅ 5 mm tubular nozzle
105.432 ∅ 4 mm
105.433 ∅ 5 mm **(recommended)**

Replacement Guide wheel
154.425 Guide wheel 0.5 mm
159.436 Guide wheel 2.0 mm

163.870 Additional weight, increases the directional stability. Compatible with previous models

MINIFLOOR Drive Unit

Article No.:

154.330 MINIFLOOR drive unit, with EU-plug; 230 V
154.334 MINIFLOOR drive unit, with CH-plug; 230 V
154.337 MINIFLOOR drive unit, with UK-plug; 110 V
157.685 MINIFLOOR drive unit, with UK-plug; 230 V
154.338 MINIFLOOR dirve unit, with AUS-plug; 230 V
Scope of delivery: Plastic case, Roller Holder, Rubber pad set ∅ 57 - ∅ 60 mm, Velcro fastener 2 pcs, Operating Manual

154.335 MINIFLOOR drive unit, with US/JP-plug; 120 V
154.336 MINIFLOOR drive unit, without plug; 230 V
Scope of delivery: Plastic case, Roller Holder, Rubber pad set ∅ 57 - ∅ 60 mm, Rubber pad set ∅ 64 - ∅ 65 mm, Velcro fastener 2 pcs, Operating Manual

General accessories ↘ 24

UNIFLOOR 500 – automatic, efficient, quiet

The automatic floor welder, UNIFLOOR 500, is suitable for welding resilient floor coverings made of plastic and antistatic ESD floors, as well as natural coverings made of linoleum and rubber.

Automatic floor welder

UNIFLOOR 500

1

Automatic Nozzle Positioning (ANP) from Leister
Thanks to Automatic Nozzle Positioning (ANP), the hot air blower can be rotated in and out automatically by pressing the start button; the hot air blower rotates out automatically on contact with any wall.

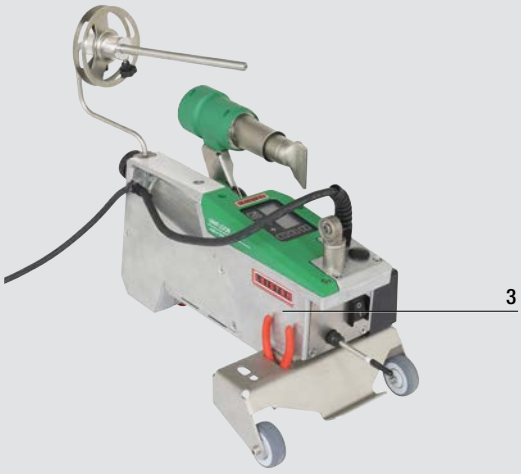
2

Foldable pressure roller
Thanks to the fold-up pressure roller, the welding rod can be inserted easily and without tilting the UNIFLOOR 500.

3

Matching tools
A side cutter has been integrated into the transport axis, so users always have the right tool for cutting the welding rod.

- reliable
- user-friendly
- universal
- quiet
- secure



Technical Data

Voltage	V~	230 / 120 / 100
Power	W	2300 / 1800 / 1500
Temperature	°C	100 – 560
Frequency	Hz	50/60
Weight	kg	15.5 (incl. de-reeler and 3m cable)
Speed	m/min	0.7 – 7.5
Air flow range	%	45 – 100
Size L × W × H	mm	420 × 270 × 215
Nozzle outlet	mm	1.6 (universal use)
Conformity marking		CE
Protection class I		⏚

Article numbers

169.612 UNIFLOOR 500, 230 V / 2300 W, EU plug
169.613 UNIFLOOR 500, 230 V / 2300 W, industrial plug
169.614 UNIFLOOR 500, 230 V / 2300 W, CH plug
169.615 UNIFLOOR 500, 120 V / 1800 W, US plug
169.616 UNIFLOOR 500, 120 V / 1800 W, with out plug
169.617 UNIFLOOR 500, 100 V / 1500 W, JP plug

Scope of delivery:
UNIFLOOR 500 incl. de-reeler, nozzle adjustment gauge, hex key, torx key, quick guide, transportation box

116.798 Brass wire brush with wooden handle

169.251 Side cutter

170.556 Nozzle adjustment gauge

145.582 Heating elements 230 V / 2200 W
165.176 Heating elements 120 V / 2100 W
165.179 Heating elements 100 V / 1600 W

GROOVER 500 LP – Grooving Cordless, Powerful, Reliable

Grooving – even on uneven floors of plastic or natural materials, close to the edge or along a guide rail – all in a day's work for the GROOVER 500-LP cordless grooving machine from Leister. No more messy rat's nests of cables and tedious searching for electric power sockets on site. Your GROOVER 500-LP lets you switch from one room to another in no time. Cordless, powerful, reliable - that's your GROOVER 500-LP.

Grooving machine

GROOVER 500-LP

1 

Cordless battery operation
with maximum flexibility

2 

LED light
for illuminating the grooving area

3 

Side stop
for grooving along rails

4 

Sensing roller
for reliable grooving – even on uneven floors

Manufactured
by Leister China

Practical, useful and handy machine for use by flooring installer, floor layer, floor covering fitters, contractors and interior decorators.

The vacuum cleaner adapter allows to connect the tool to a vacuum cleaner. Highest suction performance is guaranteed.

Grooving machine

GROOVER 500-LP

- **General-purpose milling cutter blade** for plastic and natural floor coverings
- Particularly stable on the **three-point stand**
- **Adjustable side roller** for reliable grooving on pimpled floor coverings
- **Optimized rear guide roller** for precise positioning

Technical data

Battery voltage	V ⎓	18
Battery capacity Li-Ion	Ah	5.0
Charger voltage	V~	230; 120
Cutting speed	rpm	5000
Blade diameter	mm	130
Groove depth adjustment	mm	0 - 6, infinitely variable
Size (L × W × H)	mm	445 × 212 × 336
Weight (incl. dust bag)	kg	5.5
Conformity mark		CE
Protection class II		⧈

Article No.:

167.451 GROOVER 500-LP, 230 V, Universal tungsten carbide tipped blade, ∅ 130 x 3.5 mm, T12, parabolic profile, with CH / EU plug

168.171 GROOVER 500-LP, 120 V, Universal tungsten carbide tipped blade, ∅ 130 x 3.5 mm, T12, parabolic profile, with US plug

Included with purchase: Grooving machine, 2x battery pack LP18/5.0, charger, vacuum cleaner adapter, dust bag black, dust pipe, union nut, hex key, quick guide, transportation box

Accessories GROOVER 500-LP

167.024 Poly crystalline diamond tipped blade, ∅ 130 x 3.5 mm, T6, conical profile

167.025 Universal tungsten carbide tipped blade, ∅ 130 x 2.8 mm, T12, parabolic profile

167.026 Universal tungsten carbide tipped blade, ∅ 130 x 3.5 mm, T12, parabolic profile

166.642 Vacuum cleaner adapter, connection diameter 27 mm / 36 mm

166.869 Dust bag black

GROOVER: Dust-free milling.

The GROOVER grooving machine cuts welding grooves into thick, tough floor coverings made of PVC-P, PE and linoleum. The tool glides on three rollers and cuts a uniform groove depth, even at high speeds.

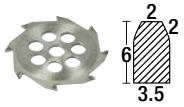
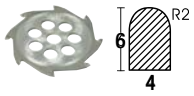
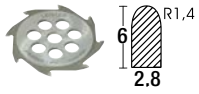
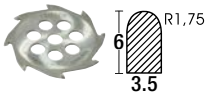
Strong drive suitable for PVC, PUR and linoleum materials.

Grooving machine

GROOVER

- Cuts grooves into of all types of floor coverings
- Extremely high, two stage cutting speeeds
- Adjustable guide roller for tracking accuracy
- Reduced dust particles when used with dust bag
- Cutting close to the edge possible

Accessories GROOVER

	**102.401**	∅ 110 × 3.5 mm, tungsten carbide-tipped blade, trapezium profile
	**102.402**	∅ 110 × 4 mm, tungsten carbide-tipped blade, round profile
	**102.403**	∅ 110 × 2.8 mm, tungsten carbide-tipped blade, round profile
	**102.405**	∅ 110 × 3.5 mm, tungsten carbide-tipped blade, round profile
	**102.406**	∅ 110 × 3.5 mm, diamond cutting blade, semi-round profile
	**126.448**	Storage case (included with purchase)

Technical Data		
Voltage	V~	120 / 230
Power	W	350 / 700 (2 levels)
Cutting speeds	rpm	Level 1: 14 500 (350 W) Level 2: 18 500 (700 W)
Groove depth adjustment	mm	0 – 4
Size (L × W × H)	mm	240 × 205 × 255
Weight	kg	6.7 (with 3 m cable)
Conformity marking		CE
Approval mark		GS
Protection class II		⧈

Article No.:

108.393	GROOVER 230 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, trapezium profile, with Euro plug, storage case
111.032	GROOVER 230 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, round profile, with Euro plug, storage case
108.397	GROOVER 120 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, trapezium profile, with UK plug yellow, storage case
112.238	GROOVER 230 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, trapezium profile, with UK plug, storage case
108.395	GROOVER 120 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, trapezium profile, with US plug polarized, storage case
109.930	GROOVER 230 V, tungsten carbide tipped blade ∅ 110 x 3.5 mm, trapezium profile, with AUS plug, storage case

GROOVY: Lightweight and handy.

The new “GROOVY” gouging tool is the lightweight, handy tool for the experienced layer of plastic floor coverings made of PVC or linoleum. Its ergonomic shape makes it possible to achieve the desired groove width and depth up to the connecting walls, defined and clean-cut, with little pressure.

Gouging tool

GROOVY

- Lightweight and handy
- Groove preparation without milling
- Clean transition from machine-milled groove to the closure
- Ideal for surfaces that are small and difficult to access
- Precise work thanks to roller guide
- Groove gouging up to connecting walls
- Adjustable groove depth

Technical Data		
Groove width	mm	3.5
Groove depth	mm	0.5 – 2.5
Size (L × W × H)	mm	180 × 42 × 92
Weight	kg	0.290

Article number:
150.809 Gouging tool “GROOVY” 3.5 mm for elastic floor coverings

Accessories GROOVY

151.394 Protective plug

150.815 Blade ∅ 3.5 mm
154.717 Blade ∅ 2.5 mm

154.279 Replacement Guide wheel
Guide wheel 1.8 mm
151.453 Guide wheel pointed

Ideal for surfaces that are small and difficult of access

Executing clean grooves up to connecting walls

Precise and simple guidance thanks to integrated guide rollers

General accessories

	Tubular nozzle
100.303	∅ 5 mm, 15° angled, push-fit (TRIAC)
107.144	∅ 5 mm, 15° angled, push-fit (HOTJET)

	Tubular nozzle
105.576	∅ 5 mm, 90° angled, push-fit (TRIAC)
131.867	∅ 5 mm, 90° angled, push-fit (HOTJET)

	Tubular nozzle
105.567	∅ 5 mm, 150 mm, straight (HOTJET)
105.575	∅ 5 mm, 100 mm, straight (TRIAC)

	Speed weld nozzle
105.431	3 mm, with small air-slide, push-fit on ∅ 5 mm tubular nozzle
105.432	4 mm, with small air-slide, push-fit on ∅ 5 mm tubular nozzle
105.433	5 mm, with small air-slide, push-fit on ∅ 5 mm tubular nozzle

	Speed weld nozzle
107.139	4.5 × 12 mm for fillet weld, push-fit on ∅ 5 mm tubular nozzle
107.137	8 mm welding, push-fit on ∅ 5 mm tubular nozzle

	Speed weld nozzle
159.848	5 mm, with small air-slide, curved, push-fit on 5 mm tubular nozzle
160.550	3 mm, with small air-slide, curved, push-fit on 5 mm tubular nozzle

	Speed welding nozzle, push-fit on ∅ 5 mm tubular nozzle
106.992	5.7 mm, profilee A
106.993	7 mm, profilee B

165.937	Smoothing Nozzle push-fit on ∅ 5 mm tubular nozzle

107.270	Wide slot nozzle 150 × 12 mm, push-fit (ELECTRON ST)
142.281	Scraper nozzle (ELECTRON ST)
148.933	Protective tube (ELECTRON ST)
151.068	Tool stand (ELECTRON ST) (recco-mended)

	Pressure roller
106.970	for welding rods ∅ 4 – 5 mm
106.971	for welding rods ∅ 2 – 4 mm

106.966	Hand grooving tool
106.968	Spare blades for hand grooving tool

150.809	Gouging tool “GROOVY” 3.5 mm for elastic floor coverings

150.815	Blade ∅ 3.5 mm
154.717	Blade ∅ 2.5 mm

157.544	Leister Universal scissors 260 mm with special shaft grinding

117.000	Trimming knife with 0.6 mm spacer for vinyl and linoleum with 5 spare blades included
117.005	5 spare blades
117.007	1 universal spacer 0.6 mm

106.969	Quarter Moon Knife including leather case, 100 mm stainless steel blade
122.541	Trimming guide, to use with spatula (106.969)

137.855	Leister cutter with four spare blades
138.902	Hooked blade for LEISTER-cutter (10 dispenser with 10 pcs=100 pcs)
138.539	Straight-edge blade for LEISTER-cutter (10 dispenser with 10 pcs = 100 pcs)

116.798	Brass brush
142.647	Brass brush ∅ 3 mm

160.353	Cable cord roller 25 m PUR 5 × 2.5 mm², with 1 × CEE 400 V and 2 × EU socket 230 V
161.152	Cable cord roller 25 m PUR 5 × 2.5 mm², with 1 × CEE 400 V and 2x T23 CH socket 230 V
161.207	Cable cord roller 25 m PUR 5 × 2.5 mm², with 1 × CEE 400 V and 2 × Typ E with ground pin socket 230 V
164.048	Cable cord roller 45 m, 4 × 230 V, EU socket

160.015	Cable extension cord 15 m PUR 5 × 2.5 mm², with CEE 400 V plug
159.239	Cable extension cord 15 m PUR 3 × 2.5 mm², with EU plug 230 V

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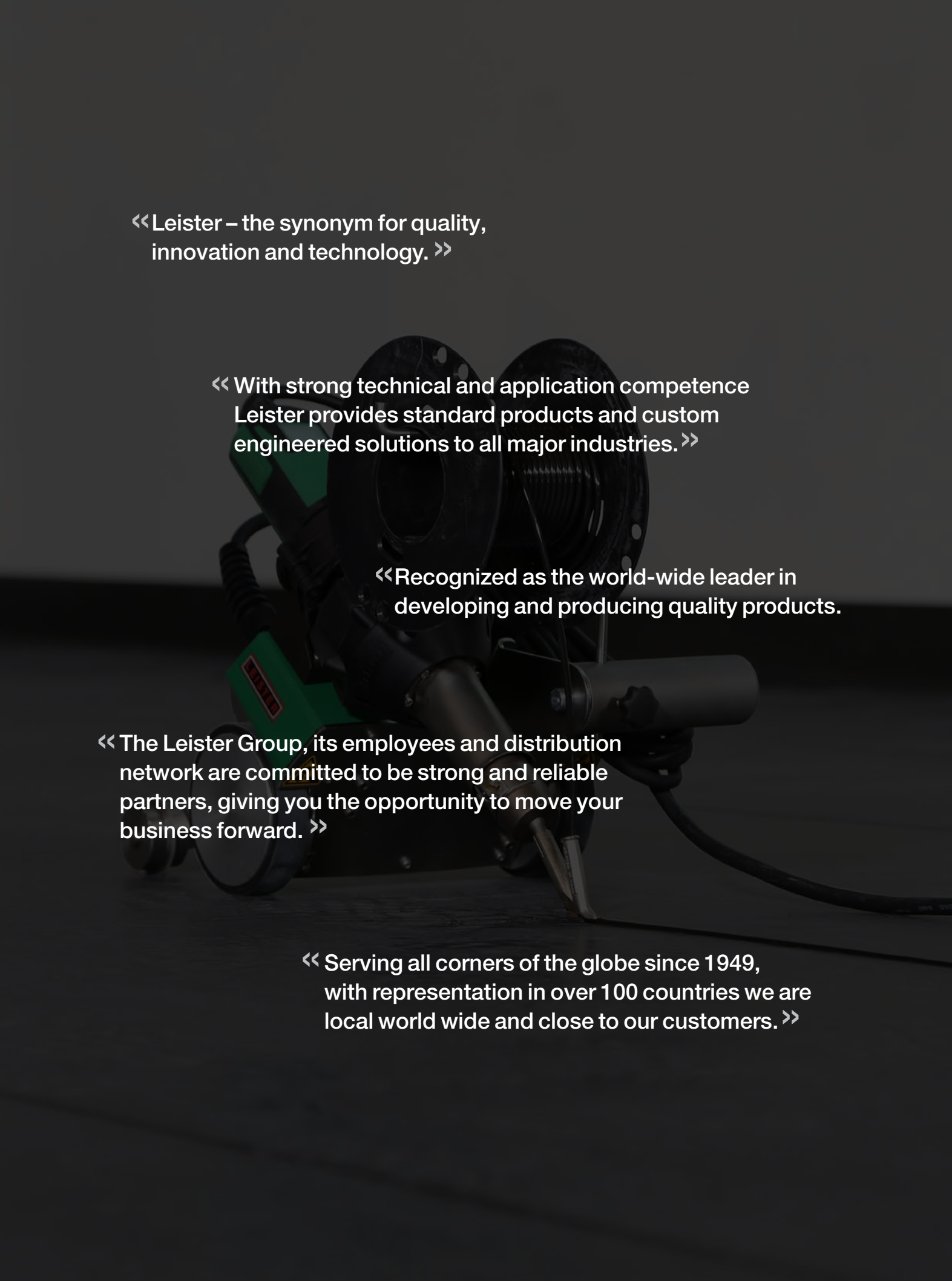

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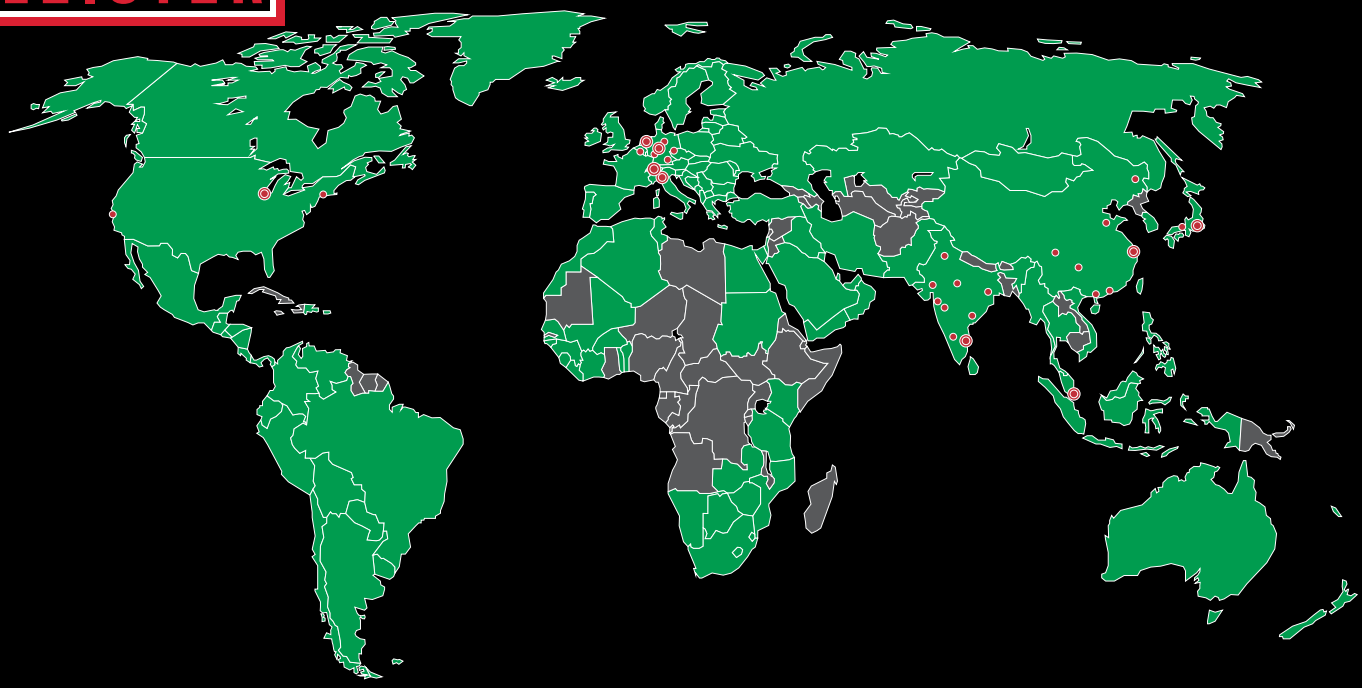

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