



Civil engineering and tunnel construction with Leister.

Powerful and reliable.



## Leister delivers performances.

Wherever you need to apply heat, Leister provides the ideal solution. We have been the worldwide leader in the field of plastic welding and hot-air blowers for over 50 years. For several years now we have also been offering innovative and effective laser systems and microsystems. We develop and produce all of our products in Switzerland – so you can always rely on the proverbial Leister quality. And because 98% of our production is exported, therefore, we have established a dense network of service centers throughout the world – guaranteeing excellent service anytime and anywhere.



Leister Corporate Center, Kaegiswil, Switzerland

**LEISTER**



### Plastic Welding

For decades now, we have been the worldwide market leader. The proverbial performance and reliability of our products makes Leister the first choice. Our tools are used in roof sealing systems, floor coverings, plastic sheeting, in earthworks, hydraulic and tunnel engineering, in process equipment manufacturing and for vehicle repair.

**NOVOLAS™**



### Lasersystems

Our innovative solutions for precision welding of plastics open up new production methods in automobile manufacturing, in medical and sensory technology, electronics, as well as in micro-systems technology or in soldering electronic components.

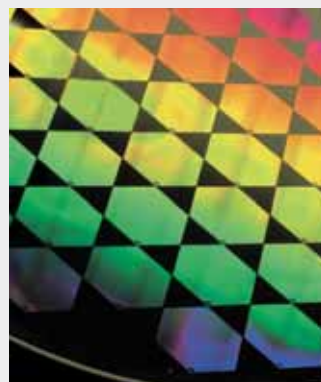
**LEISTER**



### Process heat

Whether for activation, heating, curing, melting, shrinking, welding, sterilization, drying or warming: hot-air is increasingly deployed in industrial processes. Leister customers profit from our extensive engineering knowledge and benefit from our advice in the conceptual design of hot-air applications.

**a:etris**



### Microsystems

In tomorrow's world, the smallest of structures will play a huge role! In order for our customers to keep ahead of the field in the future, we are already developing and producing micro-mechanical sensors and micro-optical components in our cleanroom today.

**Leister in action all over the world.** Whether it's a landfill site, crab farm, canal or mine: if plastic sheeting needs to be reliably and tightly welded, Leister equipment sets the standard. Here is a small selection of the projects to which Leister has contributed.



Geomembranes in road construction, Switzerland



Crab farm in Thailand



Gas extraction plant in Austria



Canal and artificial lake system in Dubai



The longest railway tunnel in the world, Switzerland



Landfill site in the USA



Chilean mine



Tunnel construction in Germany

# When it really matters, you can rely on Leister.

The long-lasting, resilient machines are 100% made in Switzerland. They process PE-HD, PE-LD, PE-C, PVC-P, PP, PFA, ECB, EVA and TPO – basically all current thermoplastics. Simple operation with a clear display. Welding speed and temperature are precisely controlled.



Drive technology designed for the highest demands

## Wedge welding machine COMET



Digital temperature and speed display



Ergonomically fitted handles assist in awkward welding situations



Controlled temperature and drive



Double drive and pressure system for constant pressure



Adjustment of welding force for different materials

### Possible applications of COMET

| Power consumption | 1500 W       |                    | 1200 W       |                    | 700 W        |                    |
|-------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|
|                   | Wedge length | Material thickness | Wedge length | Material thickness | Wedge length | Material thickness |
| PE-HD, PE-C, PP   | 70 mm copper | 1.5 – 2.0 mm       | 50 mm copper | 0.5 – 1.5 mm       | 20 mm steel  | 0.5 – 1.0 mm       |
| PE-LD             | 70 mm copper | 2.0 – 3.0 mm       | 50 mm copper | 1.0 – 2.0 mm       | 20 mm steel  | 0.5 – 1.0 mm       |
| PVC-P             | 70 mm steel  | 2.0 – 3.0 mm       | 50 mm steel  | 1.0 – 2.0 mm       |              |                    |



The handy COMET is suitable for a wide range of uses, including vertical welding.



Perfect welding on steep areas is achievable with the COMET.



The ASTRO can also be adjusted for special liner sheets, such as profiled protective sheets.

## Wedge welding machine

### COMET

The world's smallest and lightest compact machine with a integrated control box. The special wedge with optimized heat transfer guarantees top welding performance.



- Sophisticated drive technology, designed to meet the highest demands
- Digital display of temperature and speed
- Optional data recording on memory card possible
- Controlled temperature and drive
- User-friendly
- A practical, robust carrying case is included in the delivery

| Technical Data        |       |                     |
|-----------------------|-------|---------------------|
| Voltage               | V~    | 230                 |
| Power consumption     | W     | 1500                |
| Frequency             | Hz    | 50 / 60             |
| Temperature           | °C    | 20 – 420            |
| Speed                 | m/min | 0.8 – 3.2           |
| Welding pressure      | N     | 100 – 1000          |
| Material thickness    | mm    | see chart page 4    |
| Memory card recording |       | optional            |
| Size (L x W x H)      | mm    | 295 x 250 x 245     |
| Weight                | kg    | 7.5 (with 3 m cord) |
| Marking of conformity |       | CE                  |
| Approval mark         |       | Ⓢ                   |
| Protection class I    |       | Ⓛ                   |

**Article no** with Euro plug 107.538  
Accessories page 14 Further models on request

## Wedge welding machine

### ASTRO

The world's fastest hot-wedge welding machine welds at up to 5 meters per minute — and, of course, the welding seams are also perfect at this speed.



- High welding performance
- Digital display of temperature, speed and voltage
- Extra-practical one-handle operation
- Steplessly adjustable welding pressure
- Controlled temperature and drive
- A practical, robust carrying case is included in the delivery

| Technical Data        |       |                      |
|-----------------------|-------|----------------------|
| Voltage               | V~    | 230                  |
| Power consumption     | W     | 1800                 |
| Frequency             | Hz    | 50 / 60              |
| Temperature           | °C    | 20 – 420             |
| Speed                 | m/min | 0.8 – 5.0            |
| Welding pressure      | N     | 100 – 1500           |
| Material thickness    | mm    | 1.5 – 3.0            |
| Size (L x W x H)      | mm    | 430 x 270 x 310      |
| Weight                | kg    | 23.0 (with 3 m cord) |
| Marking of conformity |       | CE                   |
| Approval mark         |       | Ⓢ                    |
| Certification scheme  |       | CCA                  |
| Protection class I    |       | Ⓛ                    |

**Article no** with Euro plug 117.100  
Accessories page 14 Further models on request



The COSMO in use on a landfill covering.



Leister equipment cases suitable for use on building sites.

## Wedge welding machine

### COSMO

With up to 2500 Newton and 2000 Watts heating power, the Leister COSMO is the benchmark for the highest welding force. Moreover, Leister offers a special design with process control and data recording.



- Process control by direct measuring and recording of welding pressure
- Digital display of temperature, speed, pressure and welding length
- Optional speed control
- Welding log for quality assurance
- Controlled temperature and drive
- BAM tested and approved

| Technical Data                   |       |                      |
|----------------------------------|-------|----------------------|
| Voltage                          | V~    | 230                  |
| Power consumption                | W     | 2000                 |
| Frequency                        | Hz    | 50 / 60              |
| Temperature                      | °C    | 20 – 450             |
| Speed                            | m/min | 0.5 – 5.0            |
| Welding pressure                 | N     | 100 – 2500           |
| Material thickness               | mm    | 1.5 – 3.0            |
| Memory card recording            |       | optional             |
| Printer                          |       | optional             |
| Size (L x W x H)                 | mm    | 600 x 380 x 450      |
| Weight                           | kg    | 32.0 (with 5 m cord) |
| Marking of conformity            |       | CE                   |
| Approval mark                    |       | Ⓢ                    |
| Protection class I               |       | ⊕                    |
| <b>Article no</b> with Euro plug |       | 110.271              |
| Accessories page 14              |       |                      |

## Combiwedge welding machines

### TWINMAT

With a high air flow of 500 l/min and 2500 newton welding force, the TWINMAT produces perfect welding seals, even under humid conditions.



- Process control by direct measuring and recording of welding pressure
- Digital display of temperature, speed, pressure and welding length
- Optional speed control
- Up to 5 mm material thickness for HD-PE
- Controlled temperature and drive
- BAM tested and approved

| Technical Data                   |       |                           |
|----------------------------------|-------|---------------------------|
| Voltage                          | V~    | 400                       |
| Power consumption                | W     | 5800                      |
| Frequency                        | Hz    | 50 / 60                   |
| Temperature                      | °C    | 20 – 620                  |
| Speed                            | m/min | 0.5 – 5.0                 |
| Welding pressure                 | N     | 100 – 2500                |
| Air flow (20°C)                  | l/min | 500                       |
| Material thickness               | mm    | 1.5 – 5.0                 |
| Memory card recording            |       | optional                  |
| Printer                          |       | optional                  |
| Size (L x W x H)                 | mm    | 600 x 690 x 450           |
| Weight                           | kg    | 32.0 (with 5 m cord)      |
| Marking of conformity            |       | CE                        |
| Approval mark                    |       | Ⓢ                         |
| Certification scheme             |       | CCA                       |
| Protection class II              |       | ⊞                         |
| <b>Article no</b> with Euro plug |       | 107.475                   |
| Accessories page 14              |       | Further models on request |



TWINNY T with combi-wedge used to weld a HD-PE liner.



TWINNY T with combi-wedge, welding overhead in a tunnel.



TWINNY S with combi-wedge, welding in a South American mine.

## Combiwedge welding machine

### TWINNY T

The TWINNY T is ideal even for thin materials in civil engineering and tunnel construction. Easy-to-exchange combiwedges are also available with or without a test channel. The display provides information on all the important welding parameters.



- Easy operation
- High welding speed
- Digital display of temperature and speed
- Optional data recording
- Controlled temperature and drive
- Even under harsh environmental conditions perfect welding results thanks to hot-air system
- A practical, robust carrying case is included in the delivery

#### Technical Data

|                                      |       |                            |
|--------------------------------------|-------|----------------------------|
| Voltage                              | V~    | 230                        |
| Power consumption                    | W     | 2300                       |
| Frequency                            | Hz    | 50 / 60                    |
| Temperature                          | °C    | 20 – 560                   |
| Speed                                | m/min | 0.8 – 3.2                  |
| Welding pressure                     | N     | 100 – 1000                 |
| Air flow (20°C)                      | l/min | Stufe 2: 150, Stufe 3: 190 |
| Noise emission level L <sub>pA</sub> | dB    | 71                         |
| Memory card recording                |       | optional                   |
| Size (L × W × H)                     | mm    | 340 × 360 × 245            |
| Weight                               | kg    | 6.9 – 7.9 (with 3 m cord)  |
| Marking of conformity                |       | CE                         |
| Approval mark                        |       | Ⓢ                          |
| Protection class I                   |       | ⊕                          |

**Article no** with Euro plug 107.562  
Accessories page 14 Further models on request

## Combiwedge welding machine

### TWINNY S

Low weight and effective version for tunnel construction, the TWINNY S, optimized for overhead welding, is ideal also for thin materials in civil engineering and tunnel construction. Exchangeable combiwedges are also available for welding with or without a test channel.



- Easy operation
- Low weight
- High welding speed
- Stepless adjustable temperature and drive speed
- Even under harsh environmental conditions perfect welding results thanks to hot-air system
- Optimised versions for tunnel and civil engineering available
- A practical, robust carrying case is included in the delivery

#### Technical Data

|                                      |       |                              |          |          |
|--------------------------------------|-------|------------------------------|----------|----------|
| Voltage                              | V~    | 230                          |          |          |
| Power consumption                    | W     | 2900                         |          |          |
| Frequency                            | Hz    | 50 / 60                      |          |          |
| Temperature                          | °C    | 20 – 600                     |          |          |
| Speed                                | m/min | 0.2 – 2.5                    | 0.8 – 4  | 1.2 – 6  |
| Welding pressure                     | N     | max. 1000                    | max. 500 | max. 500 |
| Air flow (20°C)                      | l/min | Level 2: 150<br>Level 3: 190 |          |          |
| Noise emission level L <sub>pA</sub> | dB    | 71                           |          |          |
| Size (L × W × H)                     | mm    | 350 × 390 × 270              |          |          |
| Weight                               | kg    | 6.5 – 6.9 (with 3 m cord)    |          |          |
| Marking of conformity                |       | CE                           |          |          |
| Approval mark                        |       | Ⓢ                            |          |          |
| Certification scheme                 |       | CCA                          |          |          |
| Protection class II                  |       | Ⓜ                            |          |          |

**Article no** with Euro plug 119.027 | 119.008 | 128.808  
Accessories page 14 Further models on request



TRIAC DRIVE PID welding overhead in the tunnel construction.

## Semi automatic welding tool

### TRIAC DRIVE PID

Horizontal, vertical, diagonal. This tried and tested semi-automatic welding machine can be used universally. The increased welding speed compared with manual welding gives rise to higher productivity.



- Overlap welding of liner sheeting for civil engineering, tunnel and roof applications
- Small and compact
- Steplessly adjustable speed for high welding seam quality
- Can be used in the most confined spaces
- Different welding seam widths
- A practical, robust carrying case is included in the delivery

| Technical Data                       |                           |                      |
|--------------------------------------|---------------------------|----------------------|
| Voltage                              | V~                        | 230                  |
| Power consumption                    | W                         | 1700                 |
| Frequency                            | Hz                        | 50 / 60              |
| Temperature                          | °C                        | 20 – 600             |
| Speed                                | m/min                     | 0.5 – 3              |
| Noise emission level L <sub>pA</sub> | dB                        | 65                   |
| Welding seam width                   | mm                        | 30 40                |
| Size (L × W × H)                     | mm                        | 300 × 230 × 380      |
| Weight                               | kg                        | 4.15 (with 3 m cord) |
| Marking of conformity                | CE                        |                      |
| Approval mark                        | S                         |                      |
| Certification scheme                 | CCA                       |                      |
| Protection class I                   | ⊕                         |                      |
| <b>Article no</b> with Euro plug     | 115.985                   |                      |
| Accessories page 14                  | Further models on request |                      |

## Tensiometer

### EXAMO

Is the welding seam closed and can it withstand the requested peeling, tensile and shearing forces? EXAMO performs right on the construction site – quick, reliable and straight forward.



- Designed for construction site conditions
- Handy, robust and light
- Digital display of elongation, peak force, tear force, test speed and position
- With optional data recording on a memory card
- Optional for geotextiles

| Technical Data                   |         |                                |                                 |
|----------------------------------|---------|--------------------------------|---------------------------------|
| Typ                              |         | 300F                           | 600F                            |
| Voltage                          | V~      | 230                            | 230                             |
| Power consumption                | W       | 200                            | 200                             |
| Frequency                        | Hz      | 50 / 60                        | 50 / 60                         |
| Tensile load                     | N       | 4000                           | 4000                            |
| Jaw spacing                      | mm      | 5 – 300                        | 5 – 600                         |
| Range                            | mm      | 300                            | 600                             |
| Testing speed                    | mm/min  | 10 – 300                       | 10 – 300                        |
| Sample thickness                 | mm      | max. 7                         | max. 7                          |
| Sample width                     | mm      | max. 40 (60 optional)          | max. 40 (60 optional)           |
| Force sensor                     |         | yes                            | yes                             |
| USB recording                    |         | optional                       | optional                        |
| Size (L × W × H)                 | mm      | 750 × 270 × 190 (storage case) | 1050 × 270 × 190 (storage case) |
| Weight                           | kg      | 14                             | 17.5                            |
| Marking of conformity            | CE      |                                | CE                              |
| Approval mark                    | S       |                                | S                               |
| Protection class I               | ⊕       |                                | ⊕                               |
| <b>Article no</b> with Euro plug | 113.060 | 113.061                        |                                 |



Welding connections using TRIAC PID with push-fit wide slot nozzle.



Welding a patch with TRIAC PID on a building site in Dubai.

## Hand tool

### TRIAC PID

Thanks to micro-processor controlled temperature and electronic monitoring. The preferred hand tool for welding with high quality.



- Reproducible results thanks to digital display of set and actual temperature
- Welding results independent of voltage fluctuations and ambient temperature
- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Suitable for continuous operation
- Multiple replacement of carbon brushes possible

#### Technical Data

|                       |       |                       |
|-----------------------|-------|-----------------------|
| Voltage               | V~    | 230                   |
| Power consumption     | W     | 1600                  |
| Frequency             | Hz    | 50 / 60               |
| Temperature           | °C    | 50 – 600              |
| Air flow (20°C)       | l/min | 230                   |
| Size (L x Ø)          | mm    | 340 x 90, handle Ø 56 |
| Weight                | kg    | 1.4 (with 3 m cord)   |
| Marking of conformity | CE    |                       |
| Approval mark         | E     |                       |
| Certification scheme  | CCA   |                       |
| Protection class II   | □     |                       |

**Article no** with Euro plug 100.741  
Accessories page 14 Further models on request

## Hand tool

### TRIAC S

The reliable, cost-effective and proven hand tool with steplessly controlled temperature range.



- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Multiple replacement of carbon brushes possible
- Suitable for continuous operation
- Insensitive to damp

#### Technical Data

|                       |       |                       |
|-----------------------|-------|-----------------------|
| Voltage               | V~    | 230                   |
| Power consumption     | W     | 1600                  |
| Frequency             | Hz    | 50 / 60               |
| Temperature           | °C    | 20 – 700              |
| Air flow (20°C)       | l/min | 230                   |
| Size (L x Ø)          | mm    | 340 x 90, handle Ø 56 |
| Weight                | kg    | 1.4 (with 3 m cord)   |
| Marking of conformity | CE    |                       |
| Approval mark         | E     |                       |
| Certification scheme  | CCA   |                       |
| Protection class II   | □     |                       |

**Article no** with Euro plug 100.705  
Accessories page 14 Further models on request

## A special class of hand extruders.

Not for nothing is Leister the global market leader for equipment for welding geomembranes in civil engineering. In addition to the robust and reliable welding machines, Leister offers top class hand extruders for PE and PP sheeting. They are ideally trimmed for outside use and offer high functionality, unique ergonomics and technical refinement. The different manufactured sizes and amounts of output enable the welding to be adjusted to the individual needs of the user.



Symmetrical handle fixation mountable left and right



Adjustable handhold



User-friendly display

Hand extruder

### WELDPLAST S6



Ergonomic handle allows to weld in upright position



Maintenance free blower



"Steering wheel" handle designed by welders



Completely integrated in "bullet proof" housing



WELDPLAST S6 undertaking assembly applications on a landfill site.



The handy WELDPLAST S2 welding vertically.

## Digitally regulated hand extruder

### WELDPLAST S6

The most powerful hand extruder on the market. It was designed specially for the requirements of civil engineering. The product is a hand extruder with convincing performance and comfortable handling.



- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive
- Illuminated graphic display
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- High-performance preheating
- Both sided twist-free wire intake
- Simple rotatable handle
- Complies with DVS (German Welding Association) standards

| Technical Data        |      |  |
|-----------------------|------|--|
| Voltage               | V~   | 230                                    |
| Power consumption     | W    | 5300                                   |
| Frequency             | Hz   | 50 / 60                                |
| Material              |      | PE / PP                                |
| Welding rod           | mm   | Ø 4 or Ø 5                             |
| Output (HDPE)         | kg/h | 3.9 – 6.0                              |
| Size (L x W x H)      | mm   | 821 x 116 x 240 (without welding shoe) |
| Weight                | kg   | 14 (without cord)                      |
| Marking of conformity |      | CE                                     |
| Protection class I    |      | ⊕                                      |

Civil engineering welding shoe and preheating nozzle included in delivery

**Article no** with Cekon plug 134.318

Accessories page 15

## Digitally regulated hand extruder

### WELDPLAST S2

Its futuristic design is not only pleasing to the eye: the new WELDPLAST S2 feels great in your hand and will become your indispensable partner. Despite its small size, the compact device produces up to 2.3kg of extrudate an hour.



- Ergonomic design
- Screw extruder with integrated hot air blower for preheating material and welding seam
- 360° rotating welding shoe
- Lower noise, high performance gearbox
- Multifunctional display
- Double-sided, non-twisting wire feed of 3 mm or 4 mm wire
- Maintenance-free blower
- Freely adjustable handgrip
- A practical, robust carrying case is included in the delivery

| Technical Data        |      |                                       |
|-----------------------|------|---------------------------------------|
| Voltage               | V~   | 230                                   |
| Power consumption     | W    | 3000                                  |
| Frequency             | Hz   | 50 / 60                               |
| Material              |      | PE / PP / PVC on request              |
| Welding rod           | mm   | Ø 3 or Ø 4                            |
| Welding (HDPE Ø 3)    | kg/h | PE 0.6 - 1.3 PP 0.5 - 1.2             |
| Welding (HDPE Ø 4)    | kg/h | PE 1.0 - 2.3 PP 0.9 - 2.0             |
| Size (L x W x H)      | mm   | 450 x 98 x 260 (without welding shoe) |
| Weight                | kg   | 5.8 (without cord)                    |
| Marking of conformity |      | CE                                    |
| Approval mark         |      | Ⓢ                                     |
| Certification scheme  |      | CCA                                   |
| Protection class I    |      | ⊕                                     |

Welding shoe blank included in delivery, PVC and TPO versions on request

**Article no** with Euro plug 127.215

Accessories page15



The FUSION 3 is particularly suitable for hard-to-reach areas.



Both sided twist-free wire intake



Sturdy, reliable drive unit

Air heated hand extruder  
**FUSION 3**



360° rotating welding shoe



Simple combination of preheating air and plastic heating



The operating grip lies optimally in the hand.



Transport case for Leister hand extruder.



Thanks to its length, the FUSION 3 is particularly suitable for civil engineering applications.

## Air heated hand extruder

### FUSION 3

With its long and slim construction, the FUSION 3 allows pleasant working even on the ground. For the heating of the plastic mass and pre-heating air, one single hot air ventilator is sufficient.



- Screw extruder with integrated hot air blower for preheating material and welding seam
- Compact and handy
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity
- The motor start-up protection prevents cold start
- 360° rotating welding shoe
- Air flow up to 450 l/min
- Twist-free welding rod feed for 3 mm or 4 mm rod

#### Technical Data

| Technical Data        |      |                                       |
|-----------------------|------|---------------------------------------|
| Voltage               | V~   | 230                                   |
| Power consumption     | W    | 3500                                  |
| Frequency             | Hz   | 50 / 60                               |
| Material              |      | PE / PP                               |
| Welding rod           | Ø mm | 3 or 4                                |
| Output (HDPE Ø 4)     | kg/h | 2.0 – 3.5                             |
| Size (L x B x H)      | mm   | 670 x 90 x 180 (without welding shoe) |
| Weight                | kg   | 7.2 (without cord)                    |
| Marking of conformity |      | CE                                    |
| Approval mark         |      | §                                     |
| Certification scheme  |      | CCA                                   |
| Protection class II   |      | □                                     |

**Article no** with Euro plug 118.300  
Accessories page 15

## Air heated hand extruder

### FUSION 3C

Despite its simple and symmetrical construction, the FUSION 3C hand extruder achieves an output of up to 3.5 kg/h. A single hot-air blower is sufficient for heating the plastic filler and preheated air.

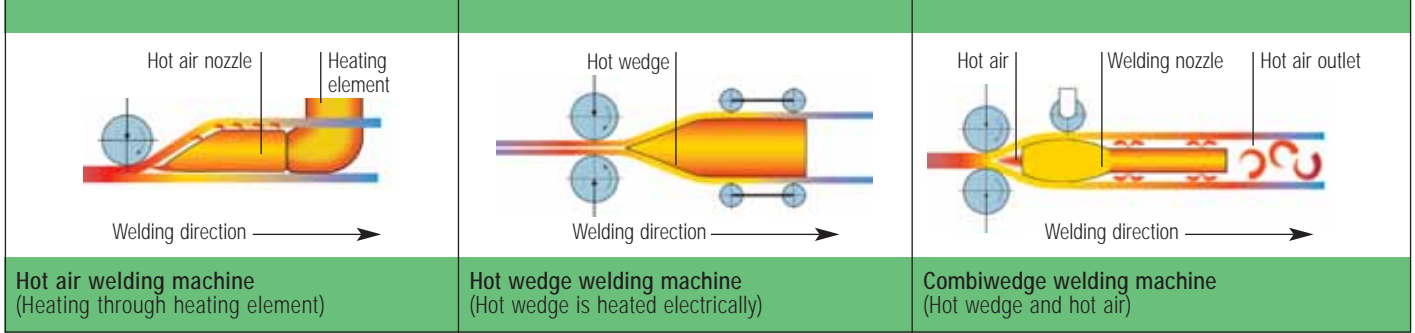


- Screw extruder with integrated hot air blower for preheating material and welding seam
- Discharge quantity up to 3.5kg/h
- Compact and handy
- The motor start-up protection prevents cold start
- Both sided twist-free wire intake
- 360° rotating welding shoe
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity
- A practical, robust carrying case is included in the delivery

#### Technical Data

|                            |      |                                       |
|----------------------------|------|---------------------------------------|
| Voltage                    | V~   | 230                                   |
| Power consumption          | W    | 2800                                  |
| Frequency                  | Hz   | 50 / 60                               |
| Material                   |      | PE/PP                                 |
| Temperature                | °C   | up to 350                             |
| Plastification-Temperature | °C   | up to 320                             |
| Welding rod                | Ø mm | 3 or 4                                |
| Output PE                  | kg/h | 1.6 – 3.5                             |
| Size (L x B x H)           | mm   | 588 x 98 x 225 (without welding shoe) |
| Weight                     | kg   | 6.9 (with 3 m cord)                   |
| Marking of conformity      |      | CE                                    |
| Approval mark              |      | §                                     |
| Certification scheme       |      | CCA                                   |
| Protection class II        |      | □                                     |

**Article no** with Euro plug 123.866  
Accessories page15



Leister is the only manufacturer to offer all possible types of welding systems worldwide.

## Accessories for civil engineering and tunnel construction

|  |  |  |   |
|--|--|--|---|
|  | <p><b>110.051</b> Test kit for welding fittings</p>  |  | <p><b>112.974</b> Cross handle</p> <p>&gt; <b>COMET</b> &gt; <b>TWINNY</b></p>                                      |
|  | <p><b>106.950</b> Welding fitting PE</p>   |  | <p><b>115.275</b> Double supporting carrier</p> <p>&gt; <b>TRIAC DRIVE</b></p>                                      |
|  | <p><b>110.052</b> Test kit with injector needle</p>  |  | <p><b>115.276</b> Single supporting carrier</p> <p>&gt; <b>TRIAC DRIVE</b></p>                                      |
|  | <p><b>109.795</b> Vacuum bell <math>\varnothing</math> 320 mm</p>  |  | <p><b>100.517</b> Short combiwedge, 50 mm with test channel</p>   |
|  | <p><b>134.832</b> Testing and calibration kit</p> <p>&gt; <b>EXAMO</b></p>   |  | <p><b>100.518</b> Short combiwedge, 50 mm without test channel</p> <p>&gt; <b>TWINNY T</b> &gt; <b>TWINNY S</b></p> |
|  | <p><b>106.975</b> One-arm pressure roller 40 mm, with ball bearings (silicon)</p>  |  | <p><b>100.525</b> Long combiwedge, 50 mm with test channel</p>  |
|  | <p><b>106.976</b> Pressure roller 28 mm (PTFE)</p>   |  | <p><b>100.526</b> Long combiwedge, 50 mm, without test channel</p> <p>&gt; <b>TWINNY T</b> &gt; <b>TWINNY S</b></p> |
|  | <p><b>107.123</b> Wide slot nozzle 20 mm, push-fit</p> <p>&gt; <b>TRIAC PID</b> &gt; <b>TRIAC S</b></p>  |  | <p><b>115.283</b> Overlap welding nozzle 12 mm, with grip, inside, push-fit</p>                                     |
|  | <p><b>107.132</b> Wide slot nozzle 40 mm, push-fit</p> <p>&gt; <b>TRIAC PID</b> &gt; <b>TRIAC S</b></p>  |  | <p><b>115.279</b> Overlap welding nozzle 30 mm, with grip, inside, push-fit</p>                                     |
|  | <p><b>107.135</b> Wide slot nozzle 40 mm, PTFE coated push-fit</p> <p>&gt; <b>TRIAC PID</b> &gt; <b>TRIAC S</b></p>  |  | <p><b>115.281</b> Overlap welding nozzle 38 mm, with grip, inside, push-fit</p>                                     |
|  | <p><b>115.274</b> Pressure roller 12 mm</p> <p><b>115.176</b> Pressure roller 30 mm</p> <p><b>115.712</b> Pressure roller 38 mm</p> <p>&gt; <b>TRIAC DRIVE</b></p> |  | <p><b>115.699</b> Overlap welding nozzle 12 mm, without grip, inside, push-fit</p>                                  |
|  |  |  | <p><b>115.701</b> Overlap welding nozzle 30 mm, without grip, inside, push-fit</p>                                  |
|  |  |  | <p><b>115.703</b> Overlap welding nozzle 38 mm, without grip, inside, push-fit</p> <p>&gt; <b>TRIAC DRIVE</b></p>   |
|  |  |  | <p><b>115.282</b> Overlap welding nozzle 12 mm, with grip, outside, push-fit</p>                                    |
|  |  |  | <p><b>115.278</b> Overlap welding nozzle 30 mm, with grip, outside, push-fit</p>                                    |
|  |  |  | <p><b>115.280</b> Overlap welding nozzle 38 mm, with grip, outside, push-fit</p>                                    |
|  |  |  | <p><b>115.698</b> Overlap welding nozzle 12 mm, without grip, outside, push-fit</p>                                 |
|  |  |  | <p><b>115.700</b> Overlap welding nozzle 30 mm, without grip, outside, push-fit</p>                                 |
|  |  |  | <p><b>115.702</b> Overlap welding nozzle 38 mm, without grip, outside, push-fit</p> <p>&gt; <b>TRIAC DRIVE</b></p>  |

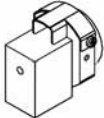
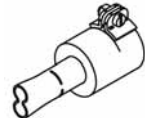
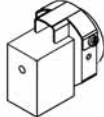

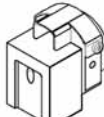

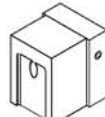

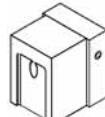
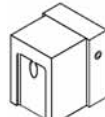
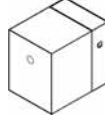


Flawless test welding with the combi-wedge welding machine TWINNY T.



Testing of a welding seam with testing unit and injector needle.

## Accessories Hand extruder

|   |                |  |   |   |  |
|---|----------------|--|---|---|--|
|    | <b>118.094</b> | Welding shoes blank complete<br>50 × 30 × 38 mm<br><br>> <b>FUSION 3</b>     |   | <b>117.053</b>  | Preheating nozzle small<br><br>> <b>WELDPLAST S6</b>                 |
|    | <b>119.214</b> | Welding shoes blank complete<br>70 × 50 × 47.5 mm<br><br>> <b>FUSION 3</b>   |   | <b>117.518</b>  | Preheating nozzle medium<br><br>> <b>WELDPLAST S6</b>                |
|    | <b>118.890</b> | Welding shoe complete,<br>overlap 25 mm                                      |   | <b>117.055</b>  | Preheating nozzle large<br><br>> <b>WELDPLAST S6</b>                 |
|   | <b>119.185</b> | Welding shoe complete,<br>overlap 35 mm<br><br>> <b>FUSION 3</b>             |   |  | <b>119.188</b>   |
|  | <b>118.188</b> | Welding rod de-reeler  |  | <b>119.190</b>  | Welding shoe complete,<br>overlap 35 mm                              |
|   |                |  |  | <b>135.901</b>  | Welding shoe complete,<br>overlap 40 mm<br><br>> <b>WELDPLAST S6</b> |
|   |                |  |  | <b>119.222</b>  | Welding shoes blank complete<br>70 × 50 × 47.5 mm                    |
|   | <b>119.217</b> | Welding shoes blank complete<br>50 × 40 × 38 mm<br><br>> <b>WELDPLAST S6</b> |   |   |  |



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Leister Process Technologies is an **ISO 9001:2000** certified enterprise.

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