

# ELECTROFUSION



Support equipment for polyethylene pipe and fittings welding including associated accessories.

- **WELDERS**
- **ACCESSORIES**



## ATS180

The ATS180 series welding unit has been designed especially for service pipe installation where portability is important, while still keeping reliability in mind. It has been tailored to the construction industry where downtime and problems cost money. It is built in a strong metal case, has a protective heavy duty carry bag and is fitted with tough rubber cables able to put up with the harshest site conditions. It is designed to weld 40V PE pressure fittings from 16mm to 180mm diameter, fully complies with the ISO International Standard for welding equipment, and has automatic bar code operation. It has full data logging capabilities and the data can be downloaded by USB memory drive, and is manufactured in the United Kingdom. The 447 terminals eliminate the need for adaptors due to it being a dual size terminal (both 4.0mm and 4.7mm), and the CCD scanner ensures and easy read of bar codes.

### TECHNICAL SPECIFICATIONS

Operating Modes - Manual, Barcode

Controlled Welding Voltage - 39.5V AC (8 to 48V AC)

Welding Current - 1 to 50A

Duty Cycle at 50 amps (in a 3 hour welding period) - 33% (200 sec on / 400 sec off)

Welding Time - 1 to 1000 seconds

Supply Voltage - 110V AC (40 to 60 Hz) / 230V AC 40 to 60 Hz

Supply Current - 1 to 25A (110) / 1 to 12A (230)

Supply Power - 2800 VA (peak)

Weight - 10kg

Size - 30 x 20 x 26 cm

Operating Temperature - -15C to +50C

Programmable Maintenance

Waterproof & Dustproof to IP65

Backlit Four Line Display

Multi-lingual Intuitive Menu

Configurable Operation

Ohms, Volts, Amps Meters Built In

Fusion Time And Energy Displayed

Manual Entry of Fusion Time

Bar Code Entry of Fusion Time

Temperature Compensation

CCD scanner

Data Log Memory (2048 Welds)

Data Download on USB

Software Upgrade by USB

Data Download PC Software

Read Traceability Bar Codes

Operator Welding Pass

Wireless Email and SMS Text - Optional

GPS Location Logging - Optional

Control Point Ready

447 terminals eliminates need to pin adaptors

Specifications are subject to change without notice. Please confirm at time of order confirmation.



## ATS250

ATS250 is a fully featured, versatile and easily operated electrofusion welding unit, ideally designed to join PE pressure electrofusion fittings from 16mm to 400mm welding at a constant voltage between 8 volts and 48 volts. European designed and manufactured with portability in mind, it has been constructed in a small lightweight metal case, making it easy to carry and use. Able to weld fittings in both manual and bar code mode, ATS250 has a data log memory of more than 2000 welds which can be downloaded using USB memory. The 447 terminals eliminate the need for adaptors due to it being a dual size terminal (both 4.0mm and 4.7mm), and the CCD scanner ensures an easy read of bar codes.

### TECHNICAL SPECIFICATIONS

Capacity - 16mm to 400mm

230 volt operation - (184v to 276v) and 110 volt operation (88v to 132v) operation

40 volt welding (8v-48v)

Waterproof and dustproof to IP65

Backlit four line display

Multi-lingual intuitive menu system

Ohms, Volts, Amps meters built in

Operation configurable by supervisor

Programmable maintenance intervals

Fusion time and energy displayed

Manual entry of fusion time

Bar code entry of fusion time

Ambient temperature compensation

CCD scanner

Data logging memory (2048 welds)

Data download on USB

Software upgrade on USB

Data download PC software

Read and log traceability bar codes

Operator welding pass lock-out

Optional mobile email and SMS text & GPS location coordinate logging at additional cost

Sturdy transportation box

Gross weight - 25kg

Gross dimensions - 30 x 32 x 50cm

Nett weight - 20kg

Nett dimensions - 22 x 26 x 45 cm

Requires minimum 230V 4.5kVa generator - provide full machine details to generator supplier before purchase

447 terminals eliminates need to pin adaptors



## LP315

The LP315 is a universal, fully automatic electrofusion welding unit designed to join PE low pressure fittings in the range of 32mm to 315mm. This 230 volt supply unit has been approved for use by Geberit, Wavin and Polypipe. It has been designed with portability in mind and has been constructed in a small lightweight plastic case making it easy to carry and use.



### TECHNICAL SPECIFICATIONS

Capacity 32 to 315mm

Welding time 80 to 420 seconds

Supply voltage 230V (40-60Hz)

Supply current 1-14A (230V)

Supply power 3300 W

Weight 4 kg

Size 20 x 10 x 6 cm

Operating temperature 15C to +50C

Environmental protection IP65

Supply cable 5m

Welding cable 3m





### ATS High Power

The High Power electrofusion welding unit is designed to join PE and PP pressure fittings from 16mm to 1200mm that weld at a constant voltage between 8 volts and 48 volts. It has been designed with reliability in mind and has been constructed with heavy duty electronics with forced air cooling to allow multiple fittings to be welded in quick succession. It can weld fittings in manual mode and bar code mode, and has a data log memory of more than 2000 welds that can be downloaded using USB memory. The 47 terminals eliminate the need for adaptors due to it being a dual size terminal (both 4.0mm and 4.7mm), and the CCD scanner ensures an easy read of bar codes.



#### TECHNICAL SPECIFICATIONS

Please take note of acceptable voltages in comparison to the fittings being welded

Approval - ISO 12176-2

Operating modes - Manual, Bar code

Controlled welding voltage - 39.5 V (8 V to 48 V)

Welding current - 1 to 120A

Welding time - 1 to 3600 seconds

Supply voltage - 110V or 230V (40-60Hz)

Supply current - 1-63A (110V) 1-32A (230V)

Supply power - 7400 W

Weight - 42 kg

Size - 50 x 43 x 24 cm

Operating temperature - 15C to +50C

Programmable maintenance

Waterproof / Dustproof to IP65

Backlit four line display

Alphanumeric keypad

Multi-lingual intuitive menu

Configurable operation

Ohms, Volts, Amps meters built in

Fusion time and energy displayed

Manual entry of fusion time

Bar code entry of fusion time

Temperature compensation

CCD scanner

Data log memory (2048 welds)

Data download to USB memory

Software upgrade from USB memory

Data download PC software

Read traceability codes

Operator welding pass

Wireless email and SMS text - Optional

GPS location logging - Optional

Mobile phone App compatible

447 terminals eliminates need to pin adaptors

Technical details are subject to change without notice



### ATS4000

The ATS4000 welding unit has been designed specifically to weld large diameter fittings, those above 630mm. These fittings have long weld times and high welding currents, so the unit has heavy-duty electronics, easily capable of these demanding conditions. The unit is built in a strong metal case with forced-air cooling to allow multiple fittings to be welded in quick succession. The unit has full data logging capabilities and can weld in manual or automatic bar code operation. It has a unique “fast weld” mode, allowing bifilar fittings to be welded concurrently, halving the installation time. This is a high-power electrofusion welding unit designed to join PE Storm Water pipes from 500mm to 4000mm that are manufactured by Krah and Polypipe Ridgistorm-XL. It has been designed with reliability in mind and has been constructed with heavy duty electronics with forced air cooling to allow multiple pipes to be welded in quick succession. For larger diameter pipes, two, three or four machines can be used simultaneously without causing interference. It can weld in manual mode and bar code mode, and has a data log memory of more than 2000 welds that can be downloaded using USB memory.

#### TECHNICAL SPECIFICATIONS

Approvals - ISO 12176-2

Operating Modes - Manual, Bar code

Controlled Welding Voltage - 39.5 V (8 V to 48 V)

Welding Current - 1 to 120 A

Supply voltage - 110V or 230V (40-60Hz)

Supply current - 1-63A (110V) 1-32A (230V)

Supply power - 7400 W

Weight - 42 kg

Size - 50 x 43 x 24 cm

Operating temperature - 15C to +50C

Programmable maintenance

Waterproof / Dustproof to IP65

Backlit four line display

Alphanumeric keypad

Multi-lingual intuitive menu

Configurable operation

Ohms, Volts, Amps meters built in

Fusion time and energy displayed

Manual entry of fusion time option

Bar code entry of fusion time

Bar code pen - optional

Bar code scanner

Temperature compensation

Data log memory (2048 welds)

Data download to USB memory

Software upgrade from USB memory

Data download PC software

Read traceability codes

Operator welding pass

Wireless Email and SMS Text - optional

GPS Location Logging - optional

Mobile phone App compatible

Technical details are subject to change without notice



## PowerScape1200

PowerScape1200 is a specifically created machine for scraping large diameter HDPE pipes according to the requirements for electrofusion fittings, and helps you to save time and effort on the job-site. It is clamped onto the pipe wall and moves automatically around the pipe's circumference. Pipe ovality does not affect the depth of cut. It is further equipped with a connection for industrial vacuum cleaners. The flexible construction enables a scraping length of up to 350 mm, which is ideal for electrofusion fittings d 355 - d 1200 mm.

### TECHNICAL SPECIFICATIONS

Scraping width - 175 / 350mm

Scraping depth - 0.2 (red) / 0.4 (yellow) / 0.6mm (blue)

Scraping speed - 0.8m/min

Weight - 16kg

Power scraping motor - 1600W

Power driving motor - 150W

Input power - 230V /



### PolyScraper40 & 62

Robust and easy to use hand tool for manually scraping PE pipe prior to electrofusion.  
Manufactured with a plastic handle and hardened steel blade.  
Available with a 40mm/1.5" or 62mm/2.5" blade width.

#### TECHNICAL SPECIFICATIONS

Blade width - 40mm/1.5" or 62mm/2.5"

Operating type - Manual

Approvals - UK: GIS/PL2-5

Size - 17 x 6 x 2 cm

Tool materials - Steel, Plastic

Tool finish - Black plate

### VeeClamp250



These tools have been designed to restrain and align pipes before and during the Electrofusion process. They work with pipes between 55mm and 250mm in diameter, those commonly used for mains installation. The pipe sits into a vee shape allowing all sizes of pipe to be held, including non-standard sizes. Reducers can be clamped by using a special reducer plate. Due to the wide vee cradle and the double strap holding, these tools are specifically good at aligning coiled pipes. The three way tool uses a special connector to allow elbows and tees to be held. These tools are completely adjustable making them versatile for every installation.

#### TECHNICAL SPECIFICATIONS

Operating range - 55mm to 250mm

Operating type - Straight

Size - 100 x 34 x 23 cm

Weight - 15.6 kg

Tool materials - Steel, Nylon

Tool finish - Gold zinc plate

### VeeClamp500



These tools have been designed to restrain and align pipes before and during the Electrofusion process. They work with pipes between 55mm and 500mm in diameter, those commonly used for mains installation. The pipe sits into a vee shape allowing all sizes of pipe to be held, including non-standard sizes. Reducers can be clamped by using a special reducer plate. Due to the wide vee cradle and the double strap holding, these tools are specifically good at aligning coiled pipes. The three way tool uses a special connector to allow elbows and tees to be held. These tools are completely adjustable making them versatile for every installation.

#### TECHNICAL SPECIFICATIONS

Operating range - 55mm to 250mm

Operating type - Straight

Size - 110 x 51 x 28 cm

Weight - 24kg

Tool materials - Steel, Nylon

Tool finish - Gold zinc plate



### MultiClamp180

These tools have been designed to restrain, align and re-round pipes before and during the Electrofusion process. They work with 63, 90, 125 and 180mm OD pipes, and can be supplied with 75, 110 & 160mm inserts on request. The holding rings rotate to preset positions of 45 degrees and 90 degrees to allow elbows to be held. Liner shells clip in and out of the holding rings to allow different diameter pipes and reducers to be held and re-rounded.

#### TECHNICAL SPECIFICATIONS

Operating range - 55mm to 180mm

Operating type - Straight, Elbow

Size - 70 x 27 x 36 cm

Weight - 10.2 kg

Tool materials - Steel, Aluminium, Plastic

Tool finish - Bright zinc plate, Anodised



### MultiClamp180 T

They work with pipes between 55mm and 180mm in diameter, those commonly used for mains installation. The holding rings rotate to preset positions of 45 degrees and 90 degrees to allow elbows to be held. Liner shells clip in and out of the holding rings to allow different diameter pipes and reducers to be held and rerounded. The three way tool has an additional leg that allows tees to be held. These tools are completely adjustable making them versatile for every installation.

#### TECHNICAL SPECIFICATIONS

Operating range - 55mm to 180mm

Operating type - Straight, Elbow

Size - 100 x 27 x 70 cm

Weight - 16.5 kg

Tool materials - Steel, Aluminium, Plastic

Tool finish - Bright zinc plate, Anodised



### VariClamp Universal

These tools have been designed to restrain and align pipes before and during the Electrofusion process. They work with pipes between 16mm and 63mm in diameter and are designed to work specifically on service connection pipe. Different sizes can be selected on each arm to allow reducers to be clamped. The backbone of the 'Universal' and 'Variable' clamp can rotate to allow 45 degree and 90 degree elbows to be clamped. The 'Variable' tool has arms that slide on the backbone to allow different width fittings to be held. This is especially useful when clamping elbows directly onto a tapping saddle outlet.

#### TECHNICAL SPECIFICATIONS

Range - 16mm to 63mm

Type - Straight, Elbow

Size - 23 x 15 x 18 cm

Weight - 1.3kg

Tool materials - Steel, Aluminium, Plastic

Tool finish - Bright zinc plate, Anodised



### SaddleClamp500

These tools have been designed to hold saddles onto pipe at the correct pressure, before and during the Electrofusion process. They work with tapping saddles, branch saddles and purge saddles. An indicator button in the middle of the handle shows when the tool is loaded to the correct pressure. With the 'Pillar' style clamps, the pipe holding foot will rotate to allow the tools to be used in a narrow trench. Saddles with stacks of 63mm, 90mm and 125mm can be held by using a special adaptor foot. The tools come in two types, a rigid Pillar type and a more versatile strap holding type.

#### TECHNICAL SPECIFICATIONS

Operating range - Pipe up to 500mm

Operating type - Top loading saddles

Size - 23 x 13 x 13 cm

Weight - 1.2 kg

Tool materials - Steel, Aluminium, Plastic, Nylon

Tool finish - Bright zinc plate, Anodised