

installation tools

section guide

Site installation of thermoplastic pipework is straightforward and can usually be completed in a fraction of the time taken to install metallic systems.

PVC-U, PVC-C and ABS systems can all be joined together using a cold solvent welded method which requires no specialised equipment. Polypropylene, Polyethylene and PVDF are resistant to most organic solvents, however, and require heat to weld the material.

Regardless of the choice of material, installation time and efficiency is greatly improved by using the correct tool for the job. In this section we include tools for cutting, chamfering and joining plastic pipes from the extensive Reed Tools range.

Also included is a selection from the WIDOS range of socket fusion welding machines, and from the GAWAPLAST range of butt fusion welding machines. This equipment is available both for sale and hire.

For jointing High Purity PVDF, AGRU offer a range of technically advanced welding equipment designed to ensure cleanliness and consistency.

Detailed installation instructions for all systems are freely available on request. Where required, we are delighted to provide training, either on or off site.

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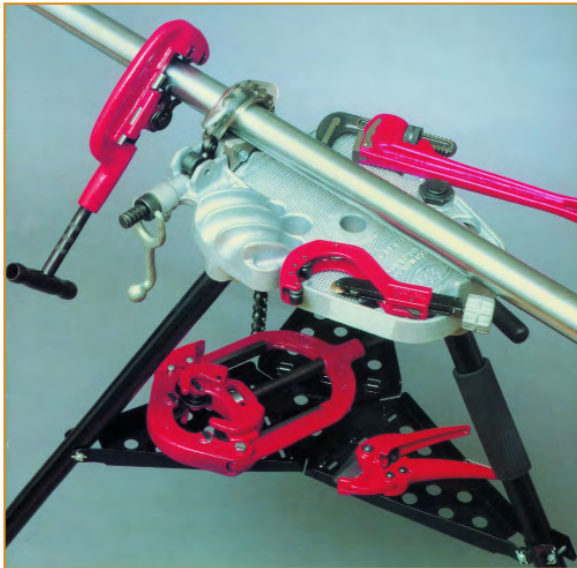
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Reed pipe tools and vises



Reed have been producing fine tools for professional craftsmen since 1896. Reed engineers have developed many of the most innovative and effective tools in the industry - such as the quick release tubing cutter, the hinged cutter, the rotary cutter, and recently, the universal pipe cutter. Many of these tools have been copied by others, but through continuous improvements and dedication to quality workmanship, Reed products remain the finest in the world.

The selection of Reed products shown here are suitable for a wide variety of plastic piping products, and are taken from their comprehensive range for all pipework materials. Please enquire for details on the complete Reed range.

Strap Wrenches

- Strong grip without scratching or deforming pipe
- Coated polyester strap is far superior to cheaper cotton straps

Pipe Capacity O.D. (mm)	Code	Price
10-63	02248	40.75
33-127	02249	80.61
60-324	02250	101.91



Cutting Shears

- Ratchet operation
- Smooth, one hand use
- Larger shears have long handle for added leverage
- Suitable for rigid and flexible PVC-U, ABS, PP, PB and PE

Max. Pipe O.D. (mm)	Code	Price
42	04176	84.75
42	04175*	98.37
63	04177	163.22

* Stainless steel blade



Plastic Pipe Saws

- Tooth design, set and hardness specially designed for plastic
- Simultaneous forward and backward cutting
- Replaceable blades

Max. Pipe O.D. (mm)	Code	Price
150	04720	39.74
200	04724	41.64
Replacement blade (150)	94720	18.20
Replacement blade (200)	94724	19.14



Quick Release Cutters

- Cutter wheels for a variety of materials
- Easy cutter wheel replacement

Pipe o.d.	Code	Wheel	Material cut	Price
3-33	04110	OP2	PE/PB/ABS	61.02
3-33	04114	1-2 PVC	PVC-U/PVC-C	59.61
6-63	04120	OP2	PE/PB/ABS	104.04
6-63	04124	1-2PVC	PVC-U/PVC-C	102.19
10-90	04130	30-40P	PE/PB/ABS	131.01
10-90	04134	3-6 PVC	PVC-U/PVC-C	126.03
48-114	04140	30-40P	PE/PB/ABS	151.87
48-114	04144	3-6 PVC	PVC-U/PVC-C	147.62
63-125	04150	30-40P	PE/PB/ABS	171.03
102-168	04160	30-40P	PE/PB/ABS	192.33
102-168	04164	3-6 PVC	PVC-U/PVC-C	187.37
102-168	04125	680PVC	PVC-U HEAVY WALL	187.37
159-254	04170	80P	PE/PVC-U/PVC-C	630.20



Spare cutter wheels available on request

Large Diameter Pipe Cutters

- Excellent for in trench or above ground cutting
Only 150mm-200mm clearance around the pipe required
- Outboard rollers keep cut square
- Long lasting carbide-tipped blades will cut up to 50mm wall

Max. Pipe O.D.	Code	Price
111-241	04465	1054.58
160-315	04470	1142.58
355-500	04475	1615.21
355-630	04480	1792.64
355-800	04485	1950.19



Bevellers

- Aluminium frame
- Long tool life
- Adjustable for pipe size with no part changes
- Produces smooth 15° bevel

Pipe O.D.	Code	Price
40-200	04395	237.03
40-300	04398	382.51



Deburring Tools

- DEB 0 removes internal and external burrs on all size pipes
- DEB 1 & DEB 2 simultaneously deburrs inner and outer edges of pipe
- DEB 4 chamfers and deburrs pipe

Type	Pipe Size	Code	Price
DEB 0	All	04434	7.31
DEB 3	All	04437	16.74
DEB 2	Up to 2"	04436	23.14
DEB 4	1 1/4" to 4"	04430	79.36



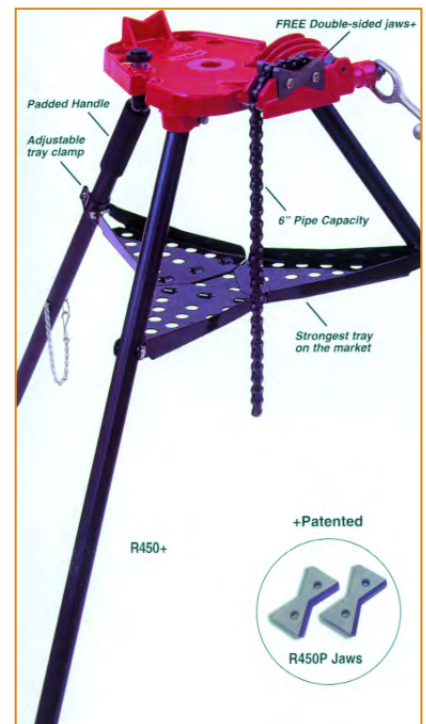
Tristands

- ✓ Lightweight for easy portability
- ✓ Large top tray with bending slots
- ✓ Double faced jaws give twice the length of service
- ✓ Heavy gauge steel and special design for stability
- ✓ Special version (R405P) for plastic pipes
- ✓ Also available for clean room use

Catalogue No.	Item Code	Vise Style	Pipe Capacity		Folded Length mm	Weight kg	Price
			Inches nom.	Actual ømm			
R450+	02306T	Chain	1/8-6	10-178	1118	16	609.62
R450P	04457	Chain	1/8-6	10-178	1118	16	641.55
R450C	04458	Chain	1/8-6	10-178	1118	16	670.65
R450GB	02307	Chain	1/8-4	10-114	1118	13	529.32
R450E	02308	-	6 max.	178 max.	1118	15	620.75
R40+	02311	Yoke	1/8-2 1/2	10-75	1295	18	600.60

More About Tristands

- R450+: two sided jaws for up to 6" metal pipe
 R450P: for plastic pipe up to 6"; one side of jaw for metal, one side for plastic pipe
 R450C: 410 stainless steel jaws, with rubber on one side; anodized (not painted) aluminium base; clear polymer sliptube over chain; good for clean room use
 R450GB: aluminium legs for weight critical field uses; up to 4" pipe capacity
 R450E: European style portable workbench with multiple vise options; user to mount vise in cast holes and slots
 R40+: two sided lower jaw for up to 2 1/2" metal pipe; yoke vise for holding work tightness of all these TriStand models.



R450+



R450C



R450GB



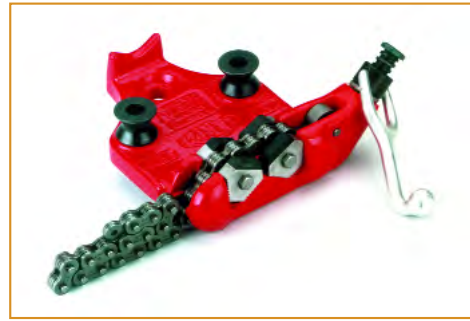
R40+

Chain Vises

- Dual purpose jaws to hold metal and plastic pipes
- Jaws easily rotated to different positions
- Ideal for bench mounting or to fit to Reed Tristand

Pipe Capacity O.D. (mm)	Code	Price
10-75	04450	149.76
10-114	04452	259.04
10-178	04457*	641.55

* Complete with Tristand



Field Pipe Vises

- Holds pipe up to 20" (500mm) diameter
- Lightweight (10kg without legs).

Pipe O.D. (mm)	Code	Price
50-500	06027	694.08

Tubular legs and backbone must be ordered separately.



Pipe Jacks

- Adjustable screw and hardened steel locking ring
- Large 907kg weight capacity
- Roller head jack has extra wide bearing for greater strength and tool life
- Pipe capacity up to 24" (610mm).



Code	Description	Pipe Capacity (mm)	Height adj.	Price
06350	V-Head High Jack	up to 610	610-1190	135.28
06352	Roller Head High Jack	up to 610	610-119	125.19
06351	Ball Transfer Head Attachment (Pair)	10-300	-	163.22



Free Training

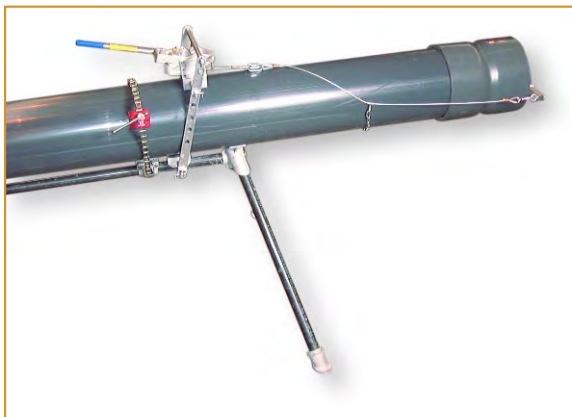
We can provide free installer training either on site or at our bespoke training facility.

Contact Tony Charlton or Tom Tate on:

0800 975 79 71

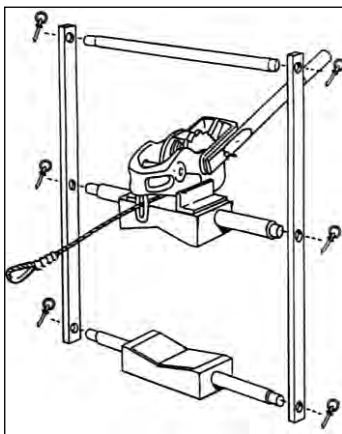


Pipe Tec Plastic Pipe Joiner

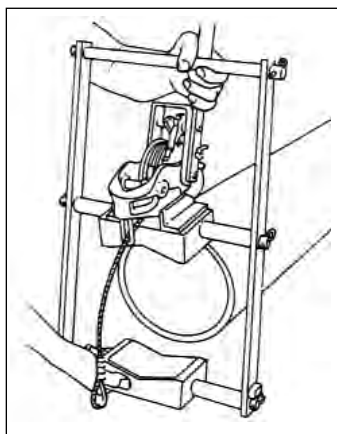


- ✓ Quick and easy to use
- ✓ Lightweight
- ✓ Positive grip - will not crush, crack or notch plastic pipe
- ✓ Unique centre-line function assures proper alignment
- ✓ Allows pipe to fully penetrate fitting
- ✓ Will hold freshly cemented joints while curing
- ✓ For inch pipes in sizes 4" to 18", and metric 50mm to 150mm
- ✓ All necessary attachments included

Pipe Size	Code	Price
4" - 12"	P0412	1710.14
14" - 18"	P1418	3486.76
50mm - 150mm	P5150	1274.87



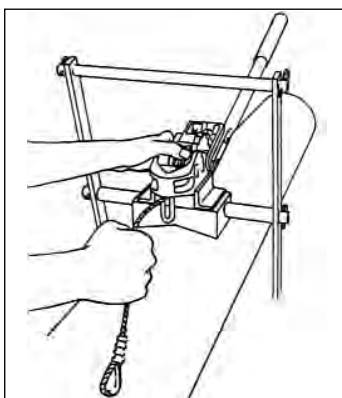
The lightweight Puller-Clamp is easy to transport and assemble. This makes the unit very practical for close work in a trench or high up on a pipe rack.



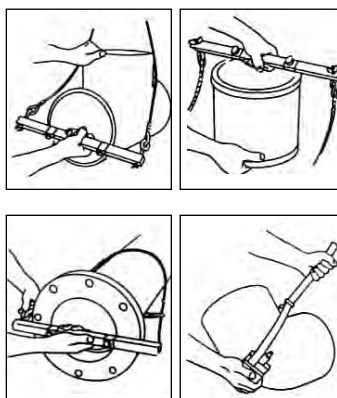
Quick and simple adjustments allow the puller to be properly sized to fit a good range of pipe diameters.



A forward tug on the handle locks the puller tightly to the pipe surface. A tug in the reverse direction will unlock it for removal or adjustment.



A powerful winch produces the force necessary to bottom out any solvent cemented or gasket jointed pipe and fitting. The winch has an interlocking pawl system that will not slip even if wet or oily.



Choose the proper fitting attachment as needed. The attachments have been uniquely designed to fit a wide variety of pipe fittings.



The puller will operate in a horizontal or vertical position. The winch will operate smoothly right side up or upside down. Solvent cemented joints can be left locked up until the cement begins to "set", no backing off of the fitting.

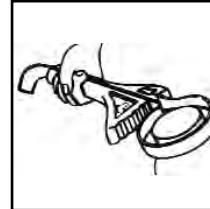
Boa Constrictor - Rubber Strap Wrench

- Grips almost anything
- Safely holds any shape, any material
- No scratching or surface damage
- Will undo, tighten or hold
- Ideal for plastic unions, valves or threads

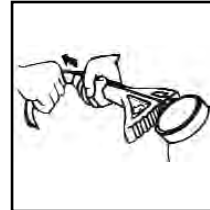
Code	Grip Range (dia.)	Price
BOA1	20-160	18.38



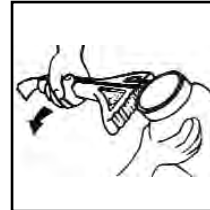
Easy to Use...



1. Place on item



2. Pull strap firmly



3. Turn in direction of arrow

Baby Boa

- Ideal for small jobs

Code	Grip Range (dia.)	Price
BOA0	20-100	9.86



Monster Strap

- Additional strap for use with standard BOA
- Grips up to 275mm diameter
- Ideal for large filters, valves or nuts.

Code	Grip Range (dia.)	Price
BOA2	20-275	14.14

Requires a standard BOA constrictor strap wrench.



Need advice?

Our expert team are here to help.
Call our freephone:

0800 975 79 71

Or from outside of the UK:
+44 191 521 3111

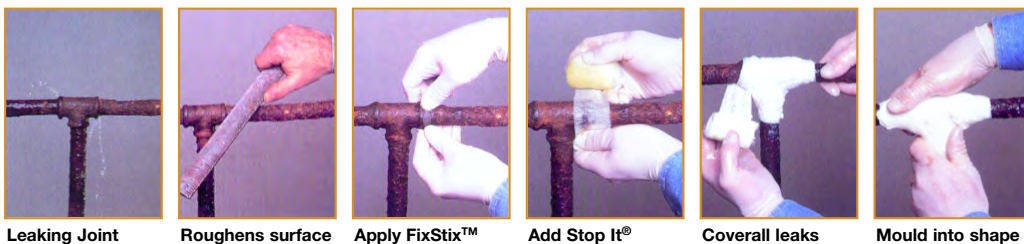


repairs and solvents welding

Stop It® pipe repair system



This in-field repair system can be quickly applied without any tools, and cures hard in 30 minutes. It works on all metal and plastic lines and when cured has excellent chemical and abrasion resistance. Each kit contains a hand-mouldable epoxy to plug leaks, voids or cracks, and a water-activated repair tape to wrap and add strength to the seal.



After 30 minutes cure will withstand up to 27 bar!

Stop It® Pipe Repair System



- Repairs all metal or plastic pipes
- Fully cures in 30 minutes
- Can be applied underwater
- Pipe does not have to be clean or dry
- Excellent chemical resistance
- After cure, will withstand up to 27 bar pressure
- Complete kit including gloves

Size of Tape	Code	Price
2" wide x 4' long	STOP-240	34.78
2" wide x 12' long	STOP-212	51.16

Stop It® Product Selection Guide

Pipe Size		Quantity 2" x 4'		Quantity 2" X 12'	
Nominal Inch Size	O.D. mm Size	Is Your Pressure Below 100 psi?	Is Your Pressure Above 100 psi?	Is Your Pressure Below 100 psi?	Is Your Pressure Above 100 psi?
1/2"	20	1 roll	1 roll	Use smaller size	Use smaller size
3/4"	25	1 roll	2 rolls	Use smaller size	Use smaller size
1"	32	1 roll	2 rolls	Use smaller size	Use smaller size
1-1/4"	40	1 roll	2 rolls	Use smaller size	Use smaller size
1-1/2"	50	2 rolls	2 rolls	Use smaller size	Use smaller size
2"	63	2 rolls	Use larger size	1 roll	1 roll
2-1/2"	75	2 rolls	Use larger size	1 roll	1 roll
3"	90	2 rolls	Use larger size	2 rolls	2 rolls
3-1/2"	-	Use larger size	Use larger size	2 rolls	2 rolls
4"	110	Use larger size	Use larger size	2 rolls	3 rolls
5"	140	Use larger size	Use larger size	2 rolls	3 rolls
6"	160	Use larger size	Use larger size	2 rolls	3 rolls
8"	225	Use larger size	Use larger size	3 rolls	4 rolls
10"	280	Use larger size	Use larger size	4 rolls	5 rolls
12"	315	Use larger size	Use larger size	4 rolls	5 rolls
14"	355	Use larger size	Use larger size	5 rolls	6 rolls
16"	400	Use larger size	Use larger size	5 rolls	7 rolls
18"	450	Use larger size	Use larger size	6 rolls	8 rolls

All WELD-ON cements, primers and cleaning fluids are now LOW VOC



IPS Corporation produces a wide range of high strength WELD-ON® solvent cements for rigid and flexible plastic pipes and fittings. Our stock range includes cements for PVC-U and Corzan PVC-C, as well as applicators to ensure faster, better joints.

PVC-U Solvent Cements



719™

Extra heavy bodied, slow setting, PVC cement for all classes and schedules up to 30" diameter. It is a good fabrication cement, as it has excellent gap filling properties and because of its slow set, a good cement on large diameter pipe.
719-300 for 500ml tin Price: £16.71

PVC-C Solvent Cements



724™

Heavy bodied, medium setting, Corzan PVC-C cement for all classes and schedules up to 12" diameter. Formulated for improved chemical resistance to caustics including hypochlorite solutions. **May be used on PVC industrial piping systems for chemical applications.** Approved for Corzan™ Systems.
724-301 for 500ml tin Price: £20.52
724-201 for Quart tin Price: £36.92



725™ Wet 'R Dry™

Medium bodied, extremely fast setting, PVC cement for all classes and schedules up to 3" diameter interference fit. Specially formulated for applications where conditions are very wet and/or when quick pressurization is desired.
725-300 for 500ml tin Price: £15.93
725-400 for 240ml tin Price: £9.36

PVC-U and PVC-C Primers



P-70™ Primer

P-70 is the most aggressive PVC and CPVC primer commercially available. Excellent product for cold weather applications. If use properly P-70 will soften pipe and fitting surfaces which is necessary for the proper solvent welding of the materials.
770-300 for Pint tin Price: £15.93
770-200 for Quart tin Price: £25.59

Jointing Applicators and Accessories



3020

Roll-A-Weld 3" roller for pipe diameters from 3" through 6"; fits MT-653 empty quart can.
Price: £13.64



Can-Mate Daubers

Adjustable plastic applicator with telescoping stem to fit all cans (except 1/4 pint). Available in 1/2", 3/4" and 1 1/2" dauber sizes.
CM-50 for 1/2"-1" pipe
CM-75 for 3/4"-1 1/4" pipe
CM-150 for 1 1/2"-3" pipe Price: £4.52



6020

Roll-A-Weld 4" roller for pipe diameters from 3" through 8"; fits standard quart can as well as MT-651 empty quart can.
Price: £13.41



Brushes

PB-1: Plastic Handle Brush; fits standard pint and quart cans.
Price: £7.97



7020

Jumbo Roll-A-Weld 7" roller for pipe diameters of 6" or larger; fits MT-648 gallon can and cements available in wide mouth cans.
Price: £16.71

CM BCP Can-Mate®: Adjustable Plastic Handle, Natural Bristle Brush; fits standard pint and quart cans.
Price: £8.19



4020

4" swab for pipe diameters of 6" or larger; fits MT-648 empty gallon can and cements available in wide mouth cans.
Price: £16.71



Empty Metal Cans

Available in MT-648 gallon, MT-651 quart, MT-653 quart (paint type) and MT-654 pint sizes.
MT-648 Price: £15.93
MT-651 Price: £4.96
MT-653 Price: £4.21
MT-654 Price: £4.14



5020

4" swab for pipe diameters from 3" through 8"; fits standard quart can as well as MT-651 empty quart can.
Price: £13.41



Disposable Gloves

Protects hands against irritation from working with slow curing cements. Interchangeable for right or left hand. 100 per box.
Price per box: £83.32



Reusable Latex Gloves (Type Y-18)

Protects hands against irritation from working with slow curing cements. Long cuffs with textured grip surfaces.
Price per pair: £11.96

Duratherm Hand-Held Welding Tool

- ✓ For use with external air supply (eg. DT6 or DT14)
- ✓ Compact and lightweight
- ✓ Continuous adjustment of welding temperature without changing air volume (Acc. DVS 2208)
- ✓ Built-in electronic temperature controls
- ✓ Automatic low air protection
- ✓ Air and electrical supply in one hose
- ✓ Fully rotating handle including nozzle

The Wegener Duratherm hot air welding tool is compact and easy to use, weighing 450 grams. It is for use with an external air supply. It can be ordered with either 4m or 8m long hose.



Duratherm

Item	Code	Price
Duratherm with 4m hose	10816	296.27
Duratherm with 8m hose	10817	304.37
Heating element HEd 1000W	11858	45.13
Portable blower DT 4 (one connection)	15857	762.67
Portable blower DT 6 (two connections)	10825	923.54
Portable blower DT 6L (two connection + air volume gauge)	10826	1075.14
Workshop blower DT 14 (six connections)	10827	1502.19
Wegener air volume gauge	11087	159.71
Wegener digital temperature gauge including thermocouple	11088	236.09

Autotherm Hand-Held Welding Tool

- ✓ For use with external air supply (eg. DT6 or DT14)
- ✓ Compact and lightweight
- ✓ Includes heating element HEx 800W
- ✓ Handle with built-in power control
- ✓ Luminous diode display showing temperature reached (green) or temperature not reached (red)
- ✓ By setting temperature to 0°C the touch is electronically switched off

The Wegener Autotherm hot air welding tool is compact and easy to use, and includes diode temperature display. It is suitable for use with an external air supply. It can be ordered with either 4m or 8m long hose.



Autotherm

Item	Code	Price
Autotherm with 4m hose	10821	517.31
Autotherm with 8m hose	10822	525.42
Heating element HEd 800W	10311	45.13
Portable blower DT 4 (one connection)	15857	762.67
Portable blower DT 6 (two connections)	10825	923.54
Portable blower DT 6L (two connection + air volume gauge)	10826	1075.14
Workshop blower DT 14 (six connections)	10827	1502.19
Wegener air volume gauge	11087	159.71
Wegener digital temperature gauge including thermocouple	11088	236.09

See following page for details of welding nozzles

Airtherm Hand-Held Welding Tool

- ✓ **Integral high volume air supply**
- ✓ **Compact and slim design**
- ✓ **Continuously adjustable air temperature up to 600°C**
- ✓ **Integrated output controls**
- ✓ **Automatic low air protection**

The Wegener Airtherm hot air welding tool is compact and easy to use. Available in two versions, the Airtherm 1600 has a heating capacity of 1600W and a weight of approximately 1.4kg. The airtherm 3000 has a heating capacity of 3000W and a weight of approximately 1.5kg.



Airtherm 1600



Airtherm 3000

Item	Code	Price
Airtherm 1600	18283	229.15
20mm Wide slot nozzle for Airtherm 1600	18397	28.94
40mm Wide slot nozzle for Airtherm 1600	18398	28.94
5mm Round nozzle for Airtherm 1600	18400	28.94
Triple nozzle for Airtherm 1600	18401	28.94
Nozzle adaptor for Airtherm 1600	18399	32.99
Airtherm 3000	18284	276.60
75 x 2mm Wide slot nozzle for Airtherm 3000	18403	43.98
70 x 10mm Wide slot nozzle for airtherm 3000	18402	32.40

Duratherm SC Hand-Held Welding Tool

- ✓ **Integral high volume air supply**
- ✓ **Compact and lightweight**
- ✓ **Continuous adjustment of welding temperature without changing air volume (Acc. DVS 2208)**
- ✓ **Built-in electronic temperature controls**
- ✓ **Automatic low air protection**
- ✓ **Hose connection to blower for ease of use**

The Wegener Duratherm SC hot air welding tool has a separate blower to reduce the weight of the hand-held welding torch to approximately 450 grams, The compact, light weight of the tool combined with the 1.5 metre long hose allows greater freedom of movement for the operator.



Duratherm SC

Item	Code	Price
Duratherm SC	10818	542.77
Heating element HEd 1000W	11858	45.13

Complete Welding Kit

- ✓ **Hot air welding torch Duratherm or Autotherm**
- ✓ **Spare heating element HEd or HEx**
- ✓ **One tacking nozzle HD, one round nozzle RD 4mm, one high speed welding nozzles SSD 4mm and one round brush for cleaning nozzles**
- ✓ **On-site blower DT6L including air volume gauge**
- ✓ **Carrying case**

Item	Code	Price
Duratherm Kit with 4m hose	10819	1445.48
Duratherm Kit with 8m hose	10820	1453.58
Autotherm Kit with 4m hose	10823	1665.37
Autotherm Kit with 8m hose	10824	1673.46

Hand Held Extrusion Welders

Wegener's EXWELD series of extrusion welders offers a multitude of models to suit every application. Wegener customers can choose from a wide variety of extrusion welders and select the most suitable design in capacity and air supply for their application. Regardless of factors such as sheet thickness, pipe diameters, weld geometries, environment conditions, in shop or field locations or polymer types- Wegener has the right machine to fulfill your needs.

Wegener's extensive range of extrusion welding machines is complemented by a large number of accessories. These include tailored shoes for special applications, rotating and angled welding heads just to name a few. Oil and moisture free clean air, imperative for the quality of a weld is offered through dedicated blowers which are lowest in operating cost and lowest in noise generation. These blowers are designed to provide the correct air volume for optimum extrusion welding.

Please contact us for further details.



EXWELD alpha2 SC



EXWELD sigma SC

Model	Welding Capacity	Weight
EXWELD alpha2 SC	up to 2.6kg/h	7kg
EXWELD sigma SC	up to 1.9kg/h	5.8kg

Blower DT4

- For use with one welding torch
- 0.2 Bar / up to 60 l/min
- 0.15 kW A.C.motor
- 220v
- Low operating noise
- Weight approximately 9.5 kg



Item	Code	Price
Blower model DT4	15857	762.67

Blower DT6 & DT6L

- For use with two welding torch
- 0.8 Bar / up to 120 l/min
- 0.25 kW A.C.motor
- 220v
- Low operating noise
- Ideal for long air supply hoses
- Weight approximately 15 kg
- DT6L includes air flow meter



Item	Code	Price
Blower model DT6	10825	923.54
Blower model DT6L	10826	1075.14

Tacking Nozzle



Item	Code	Price
Tacking nozzle	10187	37.04

Speed Welding Nozzle (Round)



Item	Code	Price
SSD 3 for 3mm round wire	10175	75.23
SSD 4 for 4mm round wire	10176	75.23
SSD 5 for 5mm round wire	10177	75.23

Speed Welding Nozzle (Profile)



Item	Code	Price
SSD/Prof 3x3x4 for profile wire 90-4	11001	111.10
SSD/Prof 3x3x5 for profile wire 80/90-5	11002	111.10
SSD/Prof 4x4x6 for profile wire 80/90-6	11003	111.10
SSD/Prof 5x5x6 for profile wire	11004	111.10
SSD/Prof 5x5x7 for profile wire 80/90-7	11005	111.10
SSD/Prof 6x6x8 for profile wire 90-8	11006	111.10
SSD/Prof 7x7x7 for profile wire 60-7	11007	111.10

Speed Welding Nozzle with Tacking Nose



Item	Code	Price
SSD/HD 3 for 3mm round wire	10173	97.21
SSD/HD 4 for 4mm round wire	10174	97.21
SSD/HD 5 for 5mm round wire	10181	97.21

Speed Welding Cast Nozzle



Item	Code	Price
SSD 3C for 3mm round wire	13020	75.23
SSD 4C for 4mm round wire	17346	75.23

Speed Welding Cast Nozzle with Tacking Nose



Item	Code	Price
SSD/HD 3C for 3mm round wire	11716	97.21
SSD/HD 4C for 4mm round wire	11715	97.21

Accessories



Item	Code	Price
Digital temperature gauge	11088	236.09
Air flow meter	11087	159.71



Hand-held Fusion Tools

- ✔ Suitable for PE, PP and PVDF
- ✔ Portable and easy to use

Widos hand-held heating tools are round or rectangular in design. They include electronic or thermostatic temperature control (a digital display is optional for the electronic version). The electronic control also features temperature adjustment and control in accordance with DVS 2208.

Heating surfaces are PTFE coated. All tools have an on/off switch, a mains control lamp and a control lamp for heating intervals. A steel carry case or heat-protected box may be ordered for safe transport of the tools.

Special voltages and dimensions are also available on request.



Round Hand-held Heating Tools

Size	Control	Power	Code	Price
≤ 90mm Dia.	Thermostatic	110v / 315w	H0090T110	369.53
≤ 90mm Dia.	Electronic	110v / 315w	H0090E110	429.13
≤ 120mm Dia.	Thermostatic	110v / 500w	H0120T110	351.66
≤ 120mm Dia.	Electronic	110v / 500w	H0120E110	486.35
≤ 200mm Dia.	Thermostatic	110v / 800w	H0200T110	470.85
≤ 200mm Dia.	Electronic	110v / 800w	H0200E110	590.06
≤ 295mm Dia.	Thermostatic	110v / 1500w	H0320T110	572.17
≤ 295mm Dia.	Electronic	110v / 1500w	H0320E110	685.42



Square Hand-held Heating Tools

Size	Control	Power	Code	Price
150mm x 150mm	Thermostatic	110v / 750w	H0150VT110	338.54
150mm x 150mm	Electronic	110v / 750w	H0150VE110	413.63
250mm x 250mm	Thermostatic	110v / 2000w	H0250VT110	550.72
250mm x 250mm	Electronic	110v / 2000w	H0250VE110	638.93

Weld IT® Socket Fusion Tool

Hand held welding tool

Socket fusion tool with electronic temperature control for use with socket fusion blocks up to 63mm. A digital temperature display with convenient buttons to set the temperature. The tool comes complete with vice support stand for use on site or in the workshop.

Everything is packed in a steel carrying case including spigot and socket heating blocks in sizes 20/25/32/40/50/63mm.

230V
50/60 Hz
(110V option)
1.7 kg

Maximum temperature: 260°C
Maximum temperature tolerance +/- 5°C

Available mid 2011



Packed in a steel carrying case

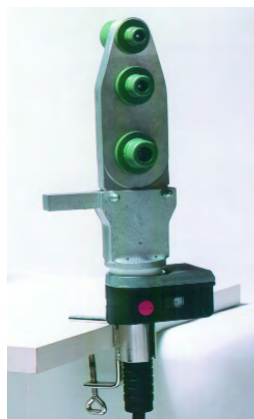
Socket Fusion Tools

- ✓ Suitable for PE, PB, PP and PVDF
- ✓ Multiple connections possible on each tool

Widos socket fusion tools are designed for heating spigots and sockets from OD 16 up to OD 110mm (depending on the model).

Heating surfaces are PTFE coated. All tools have an on/off switch, a mains control lamp and a control lamp for heating intervals. A table clamp and steel carry case is also available.

Special voltages and dimensions are also available on request.



Multi 3/3 with table clamp

Socket Fusion Tools (Heating Blocks & Accessories Not Included)

Size (O.D. mm)	Type	Control	Power	Connections	Code	Price
16 - 32	Multi 2/2 T	Thermostatic	110v / 315w	2	HM22T110	166.89
16 - 32	Multi 2/2 E	Electronic	110v / 315w	2	HM22E110	213.37
16 - 32	Multi 2/3 T	Thermostatic	110v / 700w	3	HM23T110	250.33
16 - 32	Multi 2/3 E	Electronic	110v / 700w	3	HM23E110	306.35
20 - 63	Multi 3/2 T	Thermostatic	110v / 700w	2	HM32T110	247.94
20 - 63	Multi 3/2 E	Electronic	110v / 700w	2	HM32E110	435.09
20 - 63	Multi 3/3 T	Thermostatic	110v / 850w	3	HM33T110	315.89
20 - 63	Multi 3/3 E	Electronic	110v / 850w	3	HM33E110	467.27
16 - 90	MH0090 T	Thermostatic	110v / 630w	1	HM0090T110	365.95
16 - 90	MH0090 E	Electronic	110v / 630w	1	HM0090E110	435.09
16 - 110	MH0160 T	Thermostatic	110v / 1150w	1	HM0160T110	402.90
16 - 110	MH0160 E	Electronic	110v / 1150w	1	HM0160E110	470.85

Accessories

Item	Size (O.D. mm)	Code	Price
Table clamp		HM001	34.58
Steel carry case with supporting device for Multi 2		TKHM22	41.72
Steel carry case with supporting device for Multi 3		TKHM32	57.22
Steel carry case without supporting device for MH0090		TKHM0090	79.86
Steel carry case without supporting device for MH0160		TK02002	79.86
Heating block, non-stick coated, grey *	16	HD016S	25.04
Heating block, non-stick coated, grey *	20	HD020S	26.22
Heating block, non-stick coated, grey *	25	HD025S	28.61
Heating block, non-stick coated, grey *	32	HD032S	45.29
Heating block, non-stick coated, grey *	40	HD040S	51.26
Heating block, non-stick coated, grey *	50	HD050S	54.83
Heating block, non-stick coated, grey *	63	HD063S	65.56
Heating block, non-stick coated, grey *	75	HD075S	78.67
Heating block, non-stick coated, grey *	90	HD090S	94.17
Heating block, non-stick coated, grey *	110	HD110S	118.01
Peeling and chamfering tool	20	799.300.260	120.95
Peeling and chamfering tool	25	799.300.270	120.95
Peeling and chamfering tool	32	799.300.280	120.95
Peeling and chamfering tool	40	799.300.290	166.62
Peeling and chamfering tool	50	799.300.300	178.96
Peeling and chamfering tool	63	799.300.310	203.65
Peeling and chamfering tool	75	799.300.320	228.35
Peeling and chamfering tool	90	799.300.330	265.35
Peeling and chamfering tool	110	799.300.340	283.87

* Available inch sizes on request

Type 75 Workshop Socket Fusion Tool

- ✔ Suitable for PE, PB, PP and PVDF
- ✔ Size range from 20mm O.D. to 75mm O.D.

The Widos Type 75 socket fusion welding machine will weld piping systems made from PE, PB, PP or PVDF in sizes from 20mm O.D. up to 75mm O.D.

This machine has easy adjustment on both sides of the tool to ensure correct alignment. There are two clamps on the pipe side, whereas the fitting side has a single clamp plus an insertion stop. The insertion stop will control the entry of the pipe into the fitting.

The electronically controlled heating element (230V/630W) holds the anti-stick coated heating tools. It can also be removed from the prismatic mount and put into a table locking device for external use. A rack-and-pinion mechanism controls the opening and closing motion of the machine.



The Type 75 is optionally available with 110v supply and with inch sized heater blocks.

Type 3500 and 3600 Workshop Socket Fusion Tool

- ✔ Suitable for PE, PB, PP and PVDF
- ✔ Type 3500 size range from 20mm O.D. to 110mm or 125mm O.D.
- ✔ Type 3600 size range from 20mm O.D. to 160mm O.D.

The Widos Type 3500 socket fusion welding machine will weld piping systems made from PE, PB, PP or PVDF in sizes from 20mm O.D. up to 110mm O.D., or up to 125mm O.D.

The Widos Type 3600 socket fusion welding machine will weld piping systems made from PE, PB, PP or PVDF in sizes from 20mm O.D. up to 160mm O.D.

The machines are mounted on a solid frame and have easy adjustment on both sides of the tool to ensure correct alignment. There are two clamps on the pipe side, whereas the fitting side has a single clamp plus an insertion stop. The insertion stop will control the entry of the pipe into the fitting.



The electronically controlled heating element (230V/1100W) is in accordance with DVS 2208. It holds the anti-stick coated heating tools which may also be ordered in inch dimensions if required. It can also be removed from the prismatic mount and put into a table locking device for external use. A rack-and-pinion mechanism controls the opening and closing motion of the machine.

Special voltages are also available to order.

Socket Fusion Machines Type 75, 3500 and 3600

Item	Size (O.D. mm)	Code	Price
Widos Type 75 * (110v / 630w)	20 - 75	3701110	
Steel carry case for Type 75		TK0075	
Widos Type 3500 / OD110 * (110v / 1100w)	20 - 110	3720110	
Widos Type 3500 / OD125 * (110v / 1100w)	20 - 125	3740110	
Transport and mounting case for Type 3500		TK3500	on application
Widos Type 3600 * (110v / 1100w)	63 - 160	3730110	
Optional electronic heating element for Type 3600		H3600E110	
Transport and mounting case with drawer for Type 3600		TK3600	
Packing (not required if transport case is purchased)		TV0955	

* Heating blocks not included

Accessories

Item	Size (O.D. mm)	Code	Price
Heating block, non-stick coated, grey *	20	HD020S	
Heating block, non-stick coated, grey *	25	HD025S	
Heating block, non-stick coated, grey *	32	HD032S	
Heating block, non-stick coated, grey *	40	HD040S	
Heating block, non-stick coated, grey *	50	HD050S	
Heating block, non-stick coated, grey *	63	HD063S	on application
Heating block, non-stick coated, grey *	75	HD075S	
Heating block, non-stick coated, grey *	90	HD090S	
Heating block, non-stick coated, grey *	110	HD110S	
Heating block, non-stick coated, grey *	125	HD125S	
Heating block, non-stick coated, grey *	140	HD140S	
Heating block, non-stick coated, grey *	160	HD160S	

* Available inch sizes on request

workshop combined socket fusion and butt fusion tools

SG160 Workshop Combined Socket and Butt Fusion Tool

Butt Fusion Welding

- Suitable for PE, PP and PVDF
- Sizes from 32mm to 160mm

Socket Fusion Welding

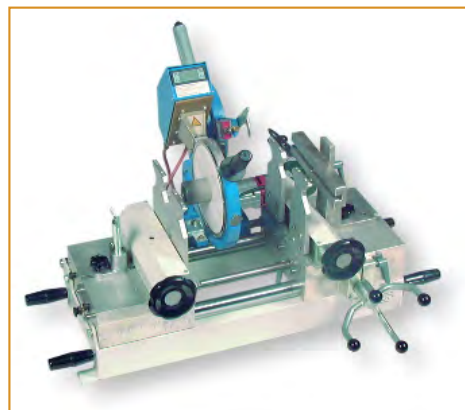
- Suitable for PE, PB, PP and PVDF
- Sizes from 16mm to 110mm

The SG160 combined socket and butt fusion tool is a convenient and compact workshop or site tool providing versatile options for use.

As a butt fusion tool it includes motorized parallel planing of the pipe ends, and a heating element with exchangeable PTFE cover sheets. When used for socket fusion welding, it features motorized peeling and chamfering.

Heating surfaces are PTFE coated. All tools have an on/off switch and a digital temperature display.

The standard SG160 includes a 110v power supply. 240v machines are available on request.



SG160 Combined Socket and Butt Fusion Tool

Item	Code	Price
SG160 Complete *	SG160	on application

* Machine includes electric planer, heating element, clamping device for butt fusion in sizes 32mm to 160mm, heating blocks for socket fusion in sizes 20mm to 110mm, and transportation case.

Spares

Item	Size (O.D. mm)	Code	Price
Heating block, non-stick coated, grey *	20	HD020S	
Heating block, non-stick coated, grey *	25	HD025S	
Heating block, non-stick coated, grey *	32	HD032S	
Heating block, non-stick coated, grey *	40	HD040S	
Heating block, non-stick coated, grey *	50	HD050S	
Heating block, non-stick coated, grey *	63	HD063S	
Heating block, non-stick coated, grey *	75	HD075S	
Heating block, non-stick coated, grey *	90	HD090S	
Heating block, non-stick coated, grey *	110	HD110S	on application
Heating block, non-stick coated, green *	20	HD020	
Heating block, non-stick coated, green *	25	HD025	
Heating block, non-stick coated, green *	32	HD032	
Heating block, non-stick coated, green *	40	HD040	
Heating block, non-stick coated, green *	50	HD050	
Heating block, non-stick coated, green *	63	HD063	
Heating block, non-stick coated, green *	75	HD075	
Heating block, non-stick coated, green *	90	HD090	
Heating block, non-stick coated, green *	110	HD110	

* Available inch sizes on request



Tool Hire

Many of our workshop or site welding tools are available for hire on a weekly basis. In most cases the hire includes welder training either on site or in our workshop by TWI certified CSWIP qualified welding professionals.

To discuss machine hire or welder training contact Tony Charlton on tcharlton@ipsflowsystems.com

Type 2500 Workshop Butt Fusion Tool

- ✓ Suitable for PE, PP and PVDF
- ✓ Size range from 50mm O.D. to 75mm O.D.

The Widos Type 2500 butt fusion welding machine will weld piping systems made from PE, PP or PVDF. The three standard machines will weld pipes in diameters from 50mm O.D. to 160mm O.D., 50mm O.D. to 250mm O.D., or 50mm O.D. to 315mm O.D. A special "Kombi" model is also available that provides butt fusion welding in pipe diameters from 50mm O.D. to 160mm O.D., and socket fusion welding in pipe diameters from 20mm O.D. to 125mm O.D.

The machine includes an electrically operated planer and electronic heating element. The clamping tool is divided into two parts (except for 160mm), each side swivelling up to 15° with clamping inserts and pipe support. This allows welding of segmented bends. A transport and mounting crate is available for safe, clean and protected storage.

The Type 2500 is a handy, mobile welding machine that is suitable for use on site as well as in the workshop. It is available for use with a 110v or 230v power supply - please specify with order.



Butt Fusion Machines Type 2500

Item	Size (O.D. mm)	Code	Price
Widos Type 2500 / OD 160 *	50 - 160	38SV11N1	on application
Widos Type 2500 / OD 250 *	50 - 250	38SV21N1	
Widos Type 2500 / OD 315 *	50 - 315	38SV01N1	
Transport case		TK2500	

* Machine includes planer, heating element, basic clamping device, reducer inserts in sizes to suit the machine and prismatic pipe support. For component and accessory prices, please enquire.

Machine Hire

Don't have the tools?
We have a dedicated fleet of welding equipment available to hire on a weekly basis.



Type 4001 Workshop Butt Fusion Tool

- ✔ Suitable for PE, PP and PVDF
- ✔ Sizes from 90mm to 315mm

The Widos Type 4001 is a rugged and reliable machine designed for welding polyolefine pipes in the size range from 90mm O.D. to 315mm O.D. An optional extension kit is available to increase the size range up to 450mm O.D.

A universal control lever with separate pressure setting manage the electro-hydraulic welding forces, distances and speeds during the welding process. The planer includes a high torque electrical chain drive and exchangeable blades. Other features of this machine include external chip removal, an adjustable timer and a clamping device that swivels on each side up to 15° for the welding of segmented bends and fittings.

This bench machine can be ordered with an optional support frame if required, and is supplied complete with two carrying handles to assist portability. The hydraulic unit, planer, heating element and clamping tools can also be easily removed for transporting the machine. Other options include special tools to enable the production of tees and crosses, or the electronic weld log recorder SPA 600 which automatically documents all relevant welding parameters.



Butt Fusion Machine Type 4001

Item	Size (O.D. mm)	Code	Price
Widos Type 4001 (110v / 1300w)	90 - 315	0241110	on application
Conversion kit to 450mm *	90 - 450	02410110	
Steel support frame		024101	

* Kit includes basic machine with hydraulics but without planer and basic clamping device. For component and accessory prices, please enquire.

Type 4002 Workshop Butt Fusion Tool

- ✔ Suitable for PE, PP and PVDF
- ✔ Sizes from 90mm to 315mm

The Widos Type 4002 is a rugged and reliable machine designed for welding polyolefine pipes in the size range from 90mm O.D. to 315mm O.D. An optional extension kit is available to increase the size range up to 450mm O.D.

A universal control lever with separate pressure setting manage the electro-hydraulic welding forces, distances and speeds during the welding process. The planer includes a high torque electrical chain drive and exchangeable blades. Other features of this machine include external chip removal, an adjustable timer and a clamping device that swivels on each side up to 15° for the welding of segmented bends and fittings.

This machine is supplied fitted to a heavy duty support frame, and is complete with two carrying handles to assist portability. The hydraulic unit, planer, heating element and clamping tools can also be easily removed for transporting the machine. Other options include special tools to enable the production of tees and crosses, or the electronic weld log recorder SPA 600 which automatically documents all relevant welding parameters. CNC control may be included for semi-automatic operation and high levels of control.



Butt Fusion Machine Type 4002

Item	Size (O.D. mm)	Code	Price
Widos Type 4002 (110v / 1300w)	90 - 315	0231110	on application
Conversion kit to 450mm *	90 - 450	02310110	
Widos Type 4002 with SPA 600 recorder (110v / 1300w)	90 - 315	0231110SP	
Widos Type 4002 S CNC (110v / 1300w)	90 - 315	1720110	

* Kit includes basic machine with hydraulics but without planer and basic clamping device. For component and accessory prices, please enquire.

Miniplast 2 Portable Butt Fusion Tool

- ✓ Suitable for PE, PP and PVDF
- ✓ Size range from 20mm O.D. to 110mm O.D.
- ✓ Highly portable device

The Widos Miniplast 2 is a butt welding machine for PE, PP and PVDF pipes and fittings in diameters from 20mm O.D. to 110mm O.D. It is lightweight and compact.

The special design of this machine makes it suitable for welding in confined spaces where other machines would be unsuitable.

The basic machine has two large aluminium basic clamping tools which swivel up to 15° on each side for the fabrication of segmented bends. By screwing in 4 small reduction inserts, clamping is possible on smaller diameters. For fittings with short legs, a small fitting clamping tool is available. The light and compact manual planer is ratchet operated (electric option), and the electronically controlled heating element is accordance with DVS 2208.



A steel carry case and heat-protected box for the planer and heating element is included when the complete machine is purchased. It is available for use with a 110v or 230v power supply - please specify with order.

Miniplast 2 Butt Fusion Machine

Item	Size (O.D. mm)	Code	Price
Widos Miniplast 2 *	20 - 110	45SVMIN1	on application
Electric planer (110v)		4504110	
Electric planer (230v)		4504230	

* Machine includes table support, ratchet planer, heating element, clamping device for 110mm with reducer inserts in sizes 20mm to 90mm, heat protected box and steel carry case. For component and accessory prices, please enquire.

Maxiplast Portable Butt Fusion Tool

- ✓ Suitable for PE, PP and PVDF
- ✓ Size range from 50mm O.D. to 160mm O.D.
- ✓ Highly portable device

The Widos Maxiplast is a butt welding machine for PE, PP and PVDF pipes and fittings in diameters from 50mm O.D. to 160mm O.D. It is lightweight and compact.

The special design of this machine makes it suitable for welding in confined spaces where other machines would be unsuitable.

The basic machine has two large aluminium basic clamping tools which swivel up to 15° on each side for the fabrication of segmented bends. By using reduction inserts, clamping is possible on smaller diameters. The compact planer is electrically operated, and the electronically controlled heating element is accordance with DVS 2208.



A transportation case and heat-protected box for the planer and heating element is included when the complete machine is purchased. It is available for use with a 110v or 230v power supply - please specify with order.

Maxiplast Butt Fusion Machine

Item	Size (O.D. mm)	Code	Price
Widos Maxiplast *	50 - 160	45SVMAX	on application

* Machine includes table support, electric planer, heating element, clamping device with reducer inserts in sizes 50mm to 140mm, heat protected box and transportation case. For component and accessory prices, please enquire.

PF Automatic Electrofusion Machine

- ✓ Suitable for PE and PP fittings up to 48v
- ✓ Welding process is monitored throughout
- ✓ Barcode or manual entry
- ✓ Simple to operate
- ✓ Robust yet easy to handle



The Frank PF Automatic Universal Electrofusion Control Box is a powerful and universal electrofusion control box suitable for site use. It will automatically or manually weld electrofusion fittings in PE or PP within the range 10 to 48V.

An integrated process monitoring system controls the fusion sequence based on a current curve. If a determined tolerance limit is exceeded the machine will cut out and display an appropriate error message. Joint overheating or defect is avoided.

The ambient temperature is measured on the welding cable adjacent to the welding zone, so that accurate temperature control is assured. In addition, full weld data is stored in the memory, including: date and time; weld record number; manufacturer, type and diameter of the electrofusion component; voltage, actual and nominal welding time and error messages. Optional data output connections allow transfer to a printer or computer.

Technical Data

Input voltage	110V AC
Input frequency/current	50 Hz/16A
Output voltage/current	10-48V/16A
Rating	2800W (3500VA)
Temperature range	-10°C to 50°C
Equipment safety	IP54, CE
Current cable	4.5m
Welding cable	5m
Weight	Approx 20kg

Monitoring Functions

Input	Voltage/Current/Frequency
Output	Voltage/Resistance/Contact Welding Time/Current Profile/System Check/ Ambient Temperature/Service Date



Type 4400/4600/4900 Site Butt Fusion Tool

- ✓ Suitable for PE, PP and PVDF
- ✓ Type 4400 size range from 50mm O.D. to 160mm O.D.
- ✓ Type 4600 size range from 75mm O.D. to 250mm O.D.
- ✓ Type 4900 size range from 90mm O.D. to 315mm O.D.
- ✓ Can be retro-fitted with SPA weld log recorder
- ✓ CNC version available

The Widos Types 4400/4600/4900 are butt welding machines for PE, PP and PVDF pipes and fittings that have been designed for rugged use on construction sites and in trenches.

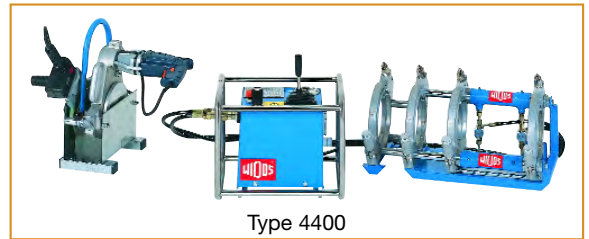
The machine has a double clamping device with quick clamping on the fixed and on the movable side guided by two hydraulic cylinders. There are two flexible hoses with quick-action couplings for connection to the hydraulic control unit. The double clamping devices are screwed to the steel pipe frame. The outer fixed clamping tool can be easily dismantled to enable welding in places of poor accessibility.

The electro-hydraulic unit (for moving the right-hand clamping device and for the exact control of the welding forces) has a pressure backup for supporting the welding force during the cooling period, two quick-action couplings as well as a digital pressure gauge.

The planer is suspended in the guide shafts, has a chain drive in a closed aluminium housing, a security micro switch with lock and an automatic external chip removal.

The heating element is suspended in the guide shafts and is anti-stick coated. It has an electronic temperature control with digital display, control lamps, an on/off switch and a connection cable with shock-proof plug. The heat-separating device prevents the heating element from sticking to the pipe after the heating process.

The Widos 4400, 4600 and 4900 welding machines can easily be retrofitted with the Widos SPA weld log recorder and can also be supplied in CNC controlled version. Automatic movement of the heating element is also an option. The machines are supplied with a transportation case and are available for use with a 110v or 230v power supply - please specify with order.



Type 4400



Type 4600



Type 4900

Butt Fusion Machine Type 4400

Item	Size (O.D. mm)	Code	Price
Widos Type 4400 with 160mm clamping device *	50 - 160	16SV44N1	on application
Widos Type 4400 SPA600 with 160mm clamping device *	50 - 160	62SV44S1	
Widos Type 4400 CNC3.0 with 160mm clamping device *	50 - 160	62SV44C1	
Reducer inserts, set 50mm - 140mm		16VS140	

* Reducer inserts not included

Butt Fusion Machine Type 4600

Item	Size (O.D. mm)	Code	Price
Widos Type 4600 with 250mm clamping device *	75 - 250	09SV46N1	on application
Widos Type 4600 SPA600 with 250mm clamping device *	75 - 250	09SV46S1	
Widos Type 4600 CNC3.0 with 250mm clamping device *	75 - 250	61SV46C1	
Reducer inserts, set 75mm - 225mm		09VS225	

* Reducer inserts not included

Butt Fusion Machine Type 4900

Item	Size (O.D. mm)	Code	Price
Widos Type 4900 with 315mm clamping device *	90 - 315	21SV49N1	on application
Widos Type 4900 SPA600 with 315mm clamping device *	90 - 315	21SV49S1	
Widos Type 4900 CNC3.0 with 315mm clamping device *	90 - 315	63SV49C1	
Reducer inserts, set 90mm - 280mm		21VS280	

* Reducer inserts not included

Type 5100/5500/6100 Site Butt Fusion Tool

- ✓ Suitable for PE, PP and PVDF
- ✓ Type 5100 size range from 200mm O.D. to 450mm O.D.
- ✓ Type 5500 size range from 200mm O.D. to 500mm O.D.
- ✓ Type 6100 size range from 315mm O.D. to 630mm O.D.
- ✓ Can be retro-fitted with SPA weld log recorder
- ✓ CNC version available

The Widos Types 5100/5500/6100 are butt welding machine for PE, PP and PVDF pipes and fittings that have been designed for rugged use on construction sites and in trenches.

The machine has a double clamping device with quick clamping on the fixed and on the movable side guided by two hydraulic cylinders. There are two flexible hoses with quick-action couplings for connection to the hydraulic control unit. The double clamping devices are screwed to the steel pipe frame. The outer fixed clamping tool can be easily dismantled to enable welding in places of poor accessibility.

The electro-hydraulic unit (for moving the right-hand clamping device and for the exact control of the welding forces) has a pressure backup for supporting the welding force during the cooling period, two quick-action couplings as well as a digital pressure gauge.

The planer is suspended in the guide shafts, has a chain drive in a closed aluminium housing, a security micro switch with lock and an automatic external chip removal.

The heating element is suspended in the guide shafts and is anti-stick coated. It has an electronic temperature control with digital display, control lamps, an on/off switch and a connection cable with shock-proof plug. The heat-separating device prevents the heating element from sticking to the pipe after the heating process.

The Widos 5100, 5500 and 6100 welding machines can easily be retrofitted with the Widos SPA weld log recorder and can also be supplied in CNC controlled version. Automatic movement of the heating element is also an option. The machines are supplied with a transportation case and are available for use with a 415v 3 phase power supply.



Type 5100



Type 5500



Type 6100

Butt Fusion Machine Type 5100

Item	Size (O.D. mm)	Code	Price
Widos Type 5100 with 450mm clamping device *	200 - 450	07SV51N1	
Widos Type 5100 SPA600 with 450mm clamping device *	200 - 450	07SV51S1	on application
Widos Type 5100 CNC3.0 with 450mm clamping device *	200 - 450	64SV51C1	
Reducer inserts, set 200mm - 400mm		07VS400	

* Reducer inserts not included

Butt Fusion Machine Type 5500

Item	Size (O.D. mm)	Code	Price
Widos Type 5500 with 500mm clamping device *	200 - 500	39SV55N1	
Widos Type 5500 SPA600 with 500mm clamping device *	200 - 500	09SV46S1	on application
Widos Type 5500 CNC3.0 with 500mm clamping device *	200 - 500	39SV55C1	
Reducer inserts, set 200mm - 450mm		39VS450	

* Reducer inserts not included

Butt Fusion Machine Type 6100

Item	Size (O.D. mm)	Code	Price
Widos Type 6100 with 630mm clamping device *	315 - 630	08SV61N1	
Widos Type 6100 SPA600 with 630mm clamping device *	315 - 630	08SV61S1	on application
Widos Type 6100 CNC3.0 with 630mm clamping device *	315 - 630	65SV61C1	
Reducer inserts, set 315mm - 560mm		08VS560	

* Reducer inserts not included

for AGRU high purity piping systems

AGRU SP Series IR Fusion

FULLY AUTOMATED WELDING OPERATION

All welding parameters are recorded by the computer. By means of a touch-screen, all steps are controlled and sequential.

OPERATOR CONTROL

Use of the machine is controlled by PCMCIA cards which also double as storage discs for downloading of welding data from the computer's memory. Historical welding information can be recalled at any time and displayed on screen, simplifying traceability.

THE FUSION PROCESS

The computer will control pressure, temperature, heating time and cooling time according to pre-programmed welding parameters which meet the requirements of DVS.

CLAMPING TOOLS

The clamping tools are equipped with a new and unique closing device which ensures uniform and repeatable clamping pressure.

HEATING ELEMENT

The heating element is produced from a special alloy which is controlled and automatically changed to compensate for the smallest temperature changes.

SUITABLE FOR CLEAN ROOM USE

(Class 100 and less)

All surfaces are specially heated and coated to protect against particle generation. Motors and actuators are encapsulated, and guiding devices are free of oil and are fully covered. Records of each weld are printed onto a special thermal printer onto a thermoplastic label which resists IPA.

POWER SUPPLY

Special voltage limiting circuits are included so that the machine is insensitive to spikes. If the voltage is incorrect, it is visible on the touch-screen.

WIDE SIZE RANGE

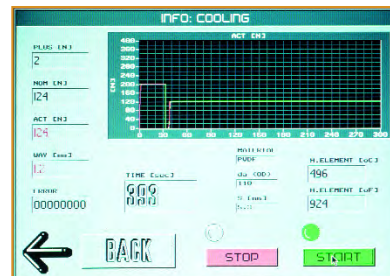
The SP110S machine welds 20mm to 110mm.
The SP315S machine welds 75mm to 315mm.



Agru SP110S computer controlled IR welding machine



Highly reproduceable accurate weld beads
Printed labels give weld traceability



Touch screen computer control displays live welding parameters



Agru SP110S IR Fusion

- ✓ Suitable for welding PP, PVDF, PFA and ECTFE
- ✓ Size range 20mm to 110mm
- ✓ Infra Red (IR) heating element
- ✓ Fully automatic welding
- ✓ Touch screen controls
- ✓ PCMCIA code card included
- ✓ Optional thermolabel printer
- ✓ Optional nitrogen purge



Agru SP315S IR Fusion

- ✓ Suitable for welding PP, PVDF, PFA and ECTFE
- ✓ Size range 75mm to 250mm
- ✓ Infra Red (IR) heating element
- ✓ Fully automatic welding
- ✓ Touch screen controls
- ✓ PCMCIA code card included
- ✓ Optional thermolabel printer
- ✓ Optional nitrogen purge



Agru HPF Electrofusion

- ✓ Suitable for welding AGRU PVDF
- ✓ HPF sleeves can be used with all AGRU PVDF pipes and fittings
- ✓ Size range 20mm to 63mm
- ✓ Fully automatic barcoded welding system
- ✓ Interface for printer
- ✓ Can be supplied with silicon balloon for high purity welding
- ✓ Optional long cables for welding in remote locations



Don't know how to use a product?

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Or from outside of the UK: +44 191 521 3111

