



WORLDPOLY.

BUTT FUSION SOLUTIONS



EQUIPMENT - TRAINING - CONSULTING



Worldpoly – experience, quality and service

For over 50 years, Worldpoly has been heavily involved in the polyethylene pipe industry as a manufacturer of pipe and fittings, welding contractor, fabricator and consultant. We have provided advice, expertise and products to companies and individuals in the polyethylene pipe industry worldwide.

We have developed and manufactured a complete range of international standard butt fusion equipment, exporting to more than 45 countries worldwide. Complimenting our equipment we offer international training and commissioning certificates. Competent and well trained staff add value to any business.

Worldpoly – products and services in demand around the world

Worldpoly is an Australian company with a global perspective. We have an expanding client base including the following countries:

- | | | | | |
|--------------|--------------|--------------------|----------------|------------|
| – Argentina | – Fiji | – Kenya | – Qatar | – Thailand |
| – Australia | – Germany | – Malaysia | – Romania | – Turkey |
| – Belgium | – India | – Maldives | – Russia | – USA |
| – Brazil | – Indonesia | – New Zealand | – Samoa | – Vanuatu |
| – Brunei | – Iran | – North Korea | – Saudi Arabia | – Vietnam |
| – Darussalam | – Iraq | – Papua New Guinea | – South Africa | – Zambia |
| – Chile | – Ireland | – Peru | – Spain | |
| – China | – Italy | – Philippines | – Sweden | |
| – Congo | – Japan | – Poland | – Taiwan | |
| – Dubai | – Kazakhstan | | – Tanzania | |

A long history of exceptional quality and unsurpassed service

Five decades is a long time in any industry. Everyone at Worldpoly fully appreciates, and continually strives to exceed your highest expectations.

All Worldpoly equipment is CE approved and manufactured under ISO9001, certified by SGS (www.sgs.com) and comes with a comprehensive 12 month international warranty – with parts supplied direct by express courier anywhere on the planet.

Our satisfied clients include manufacturers and contractors involved in every aspect of HDPE pipe application, important players in the mining and pipeline industries and major international pipe and fittings manufacturers.



Confidence through quality, success through experience

Worldpoly Field, Workshop, Pipe Saw and Saddle Fusion machines have been researched and developed by Worldpoly Pty Ltd and are manufactured under ISO9001. Used under the toughest conditions from the Australian outback to the mines of Peru, the deserts of Saudi Arabia to the workshops of Germany, our durable machines exceed our clients' high expectations.

All Worldpoly machines are approved to CE standards by SGS.

Over 50 years of hands-on experience in the polyethylene pipe and fittings industry.

خبرة أكثر من 50 عاماً في صناعة
أنابيب البوليثيلين ولوازمها

在聚乙烯管材业拥有50余年经验

Más de 50 años de experiencia en la industria de los caños y accesorios de polietileno

पॉलीएथिलीन पाइप और फ़िटिंग उद्योग
में 50 से अधिक वर्षों का अनुभव

Dengan pengalaman selama lebih dari 50 tahun dalam pipa polietilen dan industri tanggaman (fiting)

Более 50 лет опыта в производстве полиэтиленовых труб и сопутствующей арматуры



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Butt Fusion Machines



Workshop Machines



HDPE Pipe Saws



Saddle Fusion Machines



Socket Fusion Tools

Commissioning and training where you need it

As a service to our clients, our highly trained technicians are on hand to commission our entire product range and to train your staff and other users fully in the correct use of your new Worldpoly machine. Training and certification to local and international requirements is delivered by accredited professionals with decades of experience.

This service is available to all Worldpoly clients, wherever they may be in the world. Any questions or queries please send to training@worldpoly.com



Field Welding Machines

WHDS110/40

Manually operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance.

Technical Specifications

Main frame includes 2 light weight alloy main clamps of 110mm diameter.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium manual facing tool.

Manual open/close.

Stand for heating plate and facing tool.

Welding range 40mm to 110mm: SDR 9 (PN20) to SDR 41 (PN4).

Standard machine includes all diameters of clamping liners within the specified capacity range.

Layer clamps: 110x90, 90x75, 75x63, 63x50, 50x40.

220 volt 50 Hz (1.38 kw) alt. 240 volt 50 Hz (1.54 kw). Optional 60 Hz also available.





Field Welding Machines

WHDS 160/50

Manually operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance.

Technical Specifications

Main frame includes light weight alloy main clamps of 160mm diameter.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electrically operated facing tool.

Manual opening of frame.

Stand for heating plate and facing tool.

Welding range 50mm to 160mm: SDR 9 (PN20) to SDR 41 (PN4).

Standard machine includes all diameters of clamping liners within the specified capacity range.

Layer clamps: 160x140, 140x125, 125x110, 110x90, 90x75, 75x63, 63x50.

220 volt 50 Hz (1.58 kw) alt. 240 volt 50 Hz (1.77 kw). Optional 60 Hz also available.



Field Welding Machines

WHDS200/90

Manually operated field machine for the butt welding of pipes and longer spigot fittings in PE, PP and other thermoplastic materials. Operating system provides accurate reading of pressure during welding and cooling. Included as standard with this machine are all clamps required for welding pipes and fittings from 90mm to 200mm OD.

Technical Specifications

Welding range 110mm to 200mm: SDR 9 (PN20) to SDR 41 (PN4).

Layer clamps: 200x180, 180x160, 160x140, 140x125, 125x110, 110x90mm.

German hydraulic seals.

Teflon coated thermostatically controlled heating plate.

Electrically operated facing tool.

Stand for heating plate and facing tool.

220 volt 50 Hz (2.0 kw). Optional 60 Hz also available.



Field Welding Machines

WHD 160/63

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provide an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 160mm diameter.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electrohydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 63mm to 160mm: SDR 9 (PN20) to SDR 33 (PN4).

Optional stub end device for welding end fittings (available in aluminium or steel).

220 volt 50 Hz (2.13 kw) alt. 240 volt 50 Hz (2.29 kw). Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

Clamp options include

Layer clamps: 160x140, 140x125, 125x110, 110x90, 90x75, 75x63.

2-piece liners: 160x140, 160x125, 160x110, 160x90, 160x75, 160x63.

Narrow clamps: 160x140, 160x125, 160x110, 160x90, 160x75, 160x63.

Machine can be supplied with any combination of liner diameters.



Field Welding Machines

WHD250/90

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 250mm diameter.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 90mm to 250mm: SDR 9 (PN20) to SDR 41 (PN4).

Optional stub end device for welding end fittings (available in aluminium or steel).

220 volt 50 Hz (3.95 kw) alt. 240 volt 50 Hz (4.35 kw). Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

Clamp options include

Layer clamps: 250x225, 225x200, 200x180, 180x160, 160x140, 140x125, 125x110, 110x90.

2-piece liners: 250x225, 250x200, 250x180, 250x160, 160x140, 160x125, 160x110, 160x90.

Narrow clamps: 250x225, 250x200, 250x180, 250x160, 250x140, 250x125, 250x110, 250x90.

Machine can be supplied with any combination of liner diameters.



Field Welding Machines

WHD315/90

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 315mm diameter.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 90mm to 315mm: SDR 9 (PN20) to SDR 41 (PN4).

Optional stub end device for welding end fittings (available in aluminium or steel).

220 volt 50 Hz (4.95 kw) alt. 240 volt 50 Hz (5.54 kw). Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

Clamp options include

Layer clamps: 315x280, 280x250, 250x225, 225x200, 200x180, 180x160, 160x140, 140x125, 125x110, 110x90.

2-piece liners: 315x280, 315x250, 315x225, 315x200, 315x180, 315x160, 160x140, 160x125, 160x110, 160x90.

Narrow clamps: 315x280, 315x250, 315x225, 315x200, 315x180, 315x160, 315x140, 315x125, 315x110, 315x90.

Machine can be supplied with any combination of liner diameters.



Field Welding Machines

WHD450/200

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

CRANE IS OPTIONAL

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 450mm diameter. Heating plate is automatically separated from the pipe at the end of the heating cycle.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 200mm to 450mm: SDR 9 (PN20) to SDR 41 (PN4).

Optional stub end device for welding end fittings (available in aluminium or steel).

230V single phase 50 Hz (8.3 kw), 380 volt 3 phase 50 Hz (8.4 kw) alt. 415 volt 3 phase 50 Hz (9.4 kw).
Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

Clamp options include

Layer clamps: 450x400, 400x355, 355x315, 315x280, 280x250, 250x225, 225x200.

2-piece liners: 450x400, 450x355, 450x315, 450x280, 315x250, 315x225, 315x200.

Narrow clamps: 450x400, 450x355, 450x315, 450x280, 450x250, 450x225, 450x200.

Machine can be supplied with any combination of liner diameters.



Field Welding Machines

WHD630/315

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

CRANE IS OPTIONAL

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 630mm diameter.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 315mm to 630mm: SDR 11 (PN16) to SDR 41 (PN4).

Optional stub end device for welding end fittings (available in aluminium or steel).

380 volt 3 phase 50 Hz (12.4 kw) alt. 415 volt 3 phase 50 Hz (14.2 kw). Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

Clamp options include

Layer clamps: 630x560, 560x500, 500x450, 450x400, 400x355, 355x315.

2-piece liners: 630x560, 630x500, 630x450, 630x400, 450x355, 450x315.

Narrow clamps: 630x560, 630x500, 630x450, 630x400, 630x355, 630x315.

Machine can be supplied with any combination of liner diameters.





Field Welding Machines

WHD800/450

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 800mm diameter. Heating plate is automatically separated from the pipe at the end of the heating cycle.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

Welding range 450mm to 800mm: SDR 11 (PN16) to SDR 41 (PN4).

Overhead electric crane included with standard machine (note please check crane regulations in your country for suitability).

Optional stub end device for welding end fittings (available in aluminium or steel).

380 volt 3 phase 50 Hz (16.0 kw)

alt. 415 volt 3 phase 50 Hz (18.4 kw).

Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.

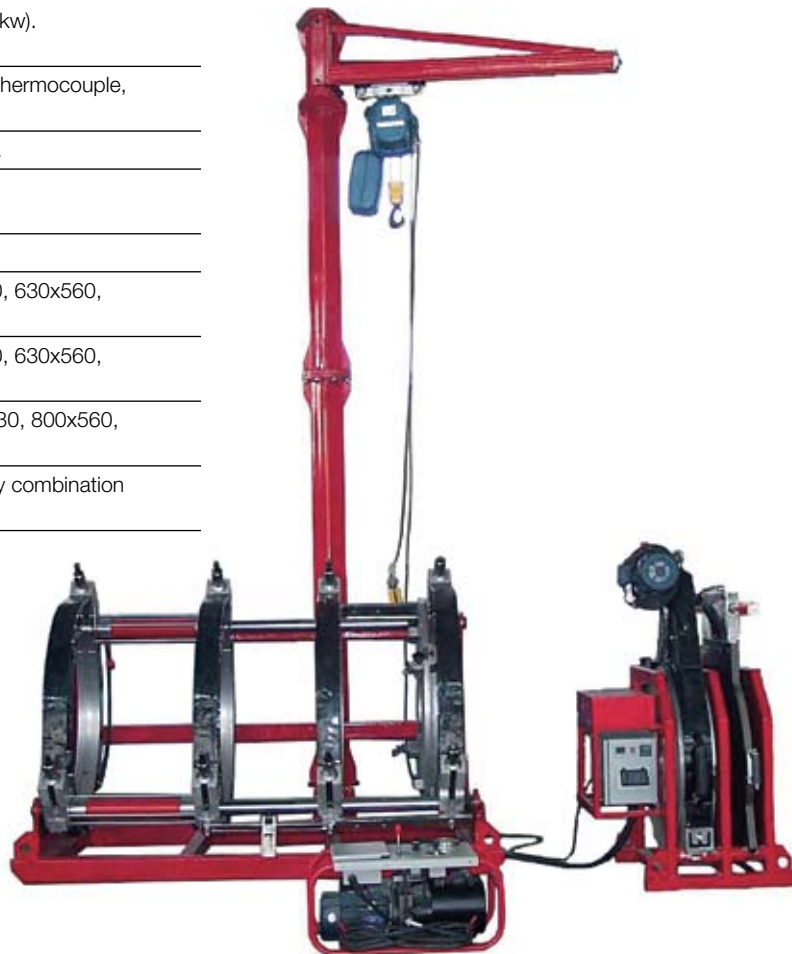
Clamp options include

Layer clamps: 800x710, 710x630, 630x560, 560x500, 500x450.

2-piece liners: 800x710, 800x630, 630x560, 630x500, 630x450.

Narrow clamps: 800x710, 800x630, 800x560, 800x500, 800x450.

Machine can be supplied with any combination of liner diameters.



Field Welding Machines

WHD 1200/630

Hydraulically operated butt welding machine, suitable for PE and PP pipes and fittings. High quality design and construction provide an excellent machine for welding both on the worksite and in the factory. The use of high quality Aluminium castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Technical Specifications

Main frame includes 4 light weight alloy main clamps of 1200mm diameter. Heating plate is automatically separated from the pipe at the end of the heating cycle.

German hydraulic seals.

Removable cast Aluminium PTFE coated heating plate with electronic temperature control.

Removable cast Aluminium electric facing tool with current overload protection.

Electrohydraulic pump with controls, accumulator and quick release hoses. Includes countdown timers for heating and cooling phases.

Stand for heating plate and facing tool.

Welding range 710mm to 1200mm: SDR 17 (PN12.5) to SDR 41 (PN4). 630mm: SDR 11 to SDR 41.

Standard machine includes all diameters of clamping liners within the specified capacity range.

Layer clamps: 1200x1100, 1100x1000, 1000x900, 900x800, 800x710, 710x630.

Optional 2 Piece liners: 1200x1000, 1200x900, 1200x800, 800x710, 800x630.

Machine can be supplied with any combination of liner diameters.

Overhead electric crane included with standard machine (note please check crane regulations in your country for suitability).

Optional stub end device for welding end fittings (available in aluminium or steel).

400 volt 3 phase 50 Hz. Optional 60 Hz also available.

Tool box including spare blades, thermocouple, temperature controller etc.

Optional wheeled trolley available.



Field Welding Machines

WHD Trolley Option

Worldpoly Field machines with the wheeled base offer increased efficiency and convenience. They are of particular benefit when welding long pipelines and have increased manoeuvrability on site.



Workshop Machines

WHG315/90

Hydraulically operated workshop machine for the butt welding of pipes and fittings in PE, PP and other thermoplastic materials. Pivoting clamps allow for the fabrication of segmented bends of different radii. Included as standard with this machine are all clamps required for the production of bends and 90 degree equal tees within the range specified below.

Technical Specifications

Welding range 90mm to 315mm: SDR 9 (PN20) to SDR 41 (PN4).

Segmented bends range 90, 110, 125, 140, 160, 180, 200, 225, 250, 280 & 315mm.

90 degree equal tees and crosses range 90, 110, 125, 140, 160, 180, 200, 225, 250, 280 & 315mm.

Optional clamps for 45 and 60 degree branch tees.

Optional narrow fittings clamp.

German hydraulic seals.

380 volt 3 phase 50 Hz (7.4 kw) alt. 415 volt 3 phase 50 Hz (8.4 kw). Optional 60 Hz also available.



Workshop Machines

WHG450/160

Hydraulically operated workshop machine for the butt welding of pipes and fittings in PE, PP and other thermoplastic materials. Pivoting clamps allow for the fabrication of segmented bends of different radii. Included as standard with this machine are all clamps required for the production of bends and 90 degree tees within the range specified below.

Technical Specifications

Welding range 160mm to 450mm: SDR 9 (PN 20) to SDR 41 (PN4).

Segmented bends range: 160, 180, 200, 225, 250, 280, 315, 355, 400 & 450mm.

90 degree equal tees and crosses range: 160, 180, 200, 225, 250, 280, 315, 355, 400 & 450mm.

German hydraulic seals.

380 volt 3 phase 50 Hz (5.6 kw) alt. 415 volt 3 phase 50 Hz (6.4 kw). Optional 60 Hz also available.



Workshop Machines

WHG630/315

Hydraulically operated workshop machine for the butt welding of pipes and fittings in PE, PP and other thermoplastic materials. Pivoting clamps allow for the fabrication of segmented bends of different radii. Included as standard with this machine are all clamps required for the production of bends and 90 degree equal tees within the range specified below.

Technical Specifications

Welding range 355mm to 630mm: SDR 11 (PN16) to SDR 41 (PN4). 315mm: SDR 9 to SDR 41.

Segmented bends range: 315, 355, 400, 450, 500, 560 & 630mm.

90 degree equal tees and crosses range: 315, 355, 400, 450, 500, 560 & 630mm.

Hydraulic open/close and locking of main clamps.

German hydraulic seals.

Optional clamps for 45 and 60 degree branch tees.

Optional narrow fittings clamp.

380 volt 3 phase 50 Hz (28.2 kw) alt. 415 volt 3 phase 50 Hz (32.5 kw). Optional 60 Hz also available.



Workshop Machines

WHG800/500

Hydraulically operated workshop machine for the butt welding of pipes and fittings in PE, PP and other thermoplastic materials. Pivoting clamps allow for the fabrication of segmented bends of different radii. Included as standard with this machine are all clamps required for the production of bends and 90 degree equal within the range specified below.

Technical Specifications

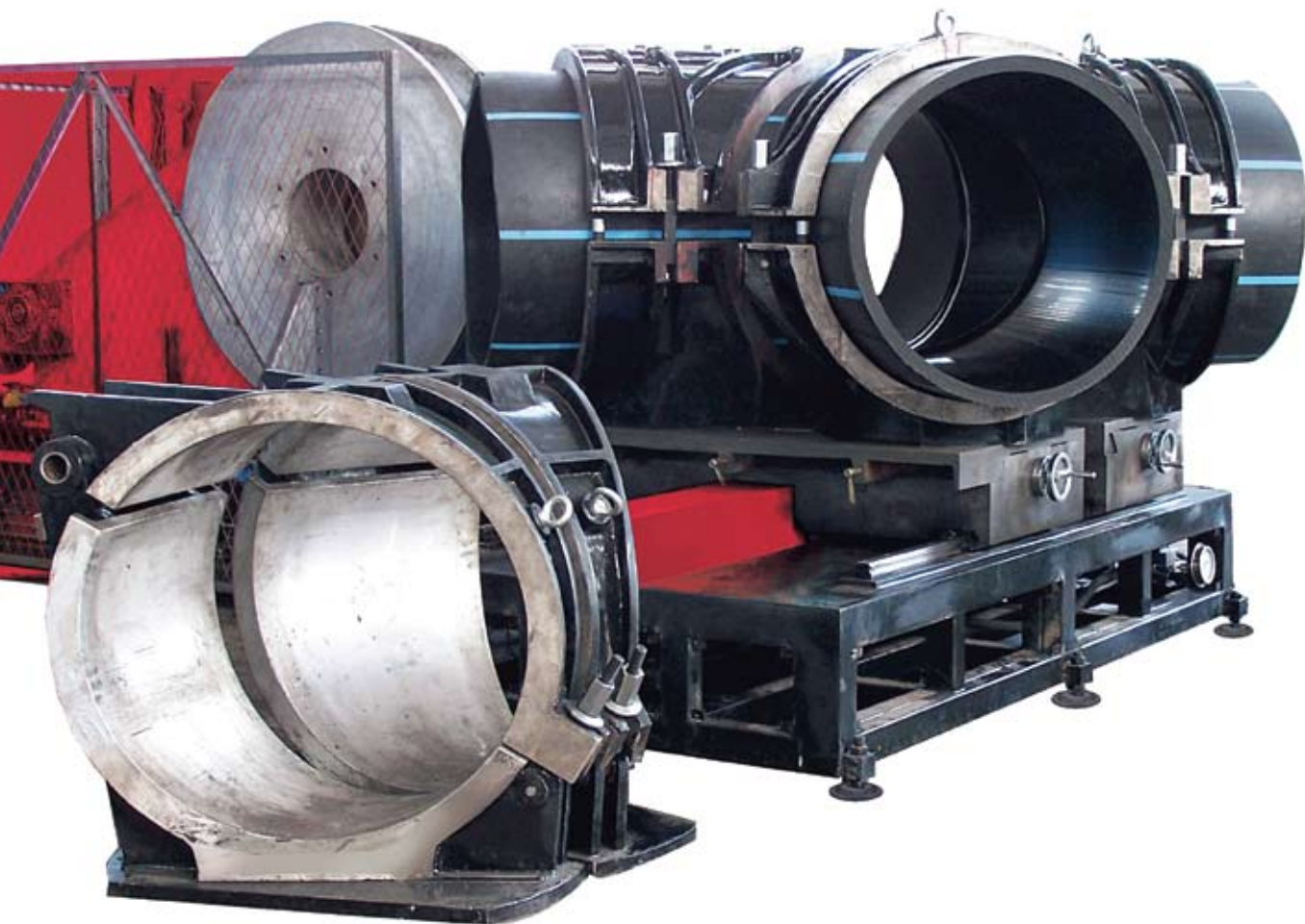
Welding range 630mm to 800mm: SDR 13.6 to SDR 41. 500 & 560mm: SDR 9 to SDR 41.

Segmented bends range 500, 560, 630, 710 & 800mm.

90 degree equal tees and crosses range 500, 560, 630, 710 & 800mm.

German hydraulic seals.

380 volt 3 phase 50 Hz (47.0 kw) alt. 415 volt 3 phase 50 Hz (54.6 kw). Optional 60 Hz also available.



Workshop Machines

WHG 1200/630

Hydraulically operated workshop machine for the butt welding of pipes and fittings in PE, PP and other thermoplastic materials. Pivoting clamps allow for the fabrication of segmented bends of different radii. Included as standard with this machine are all clamps required for the production of bends and 90 degree equal within the range specified below.

Technical Specifications

Welding range 710mm to 1200mm: SDR 17 (PN12.5) to SDR 41 (PN4). 630mm: SDR 9 to SDR 41.

Segmented bends range: 630, 710, 800, 900, 1000, 1200.

90 degree equal tees and crosses range: 630, 710, 800, 900, 1000, 1200.

Hydraulic open-close and locking of main bend clamps.

German hydraulic seals.

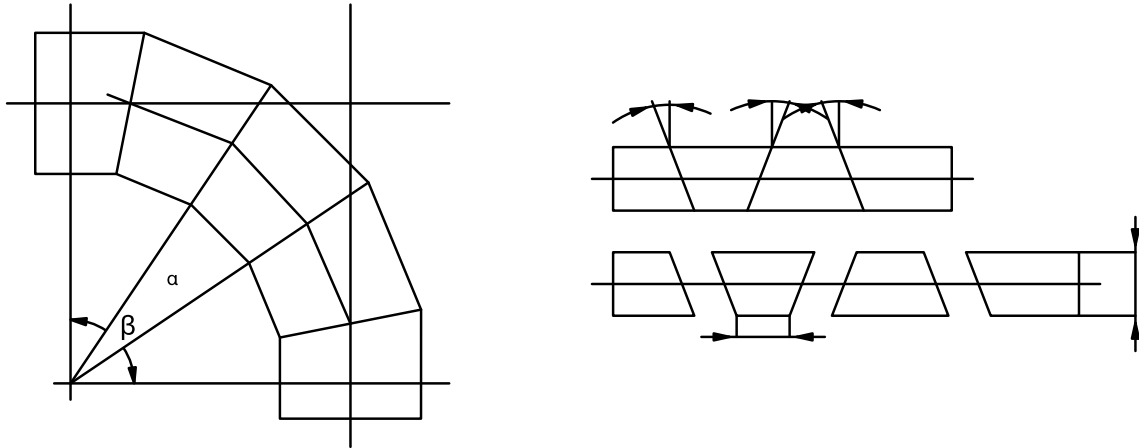
Optional 45 and 60 degree branch clamps.

380 volt 3 phase 50 Hz (28.2 kw) alt. 415 volt 3 phase 50 Hz (32.5 kw). Optional 60 Hz also available.

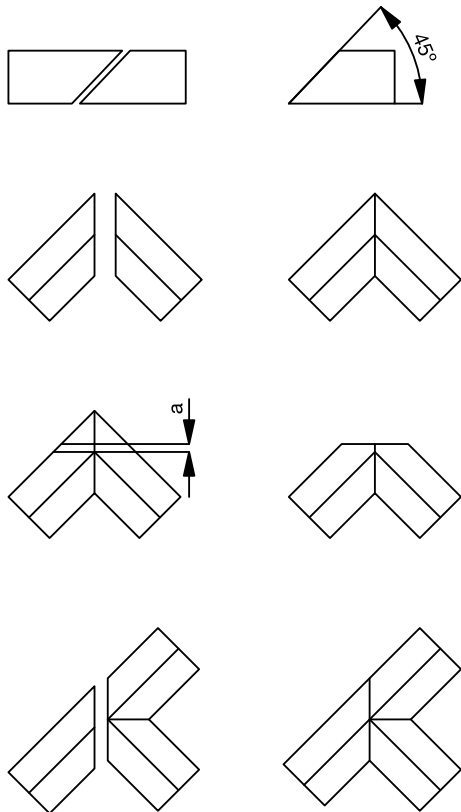


Workshop Machine Fittings Diagrams

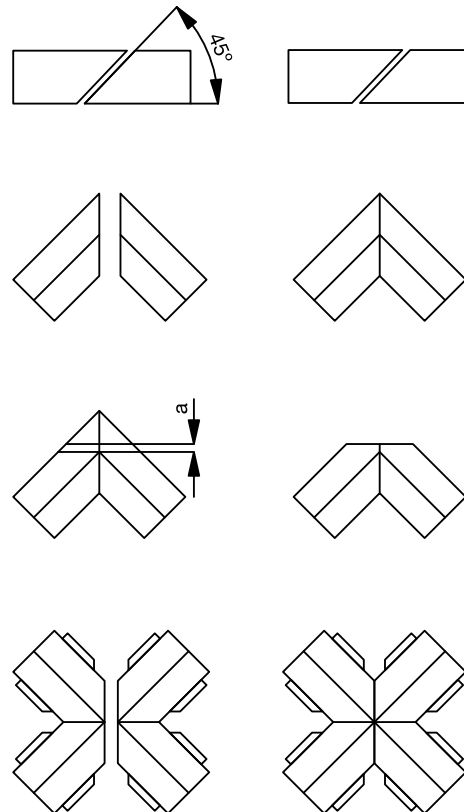
Elbow



Equal Tee



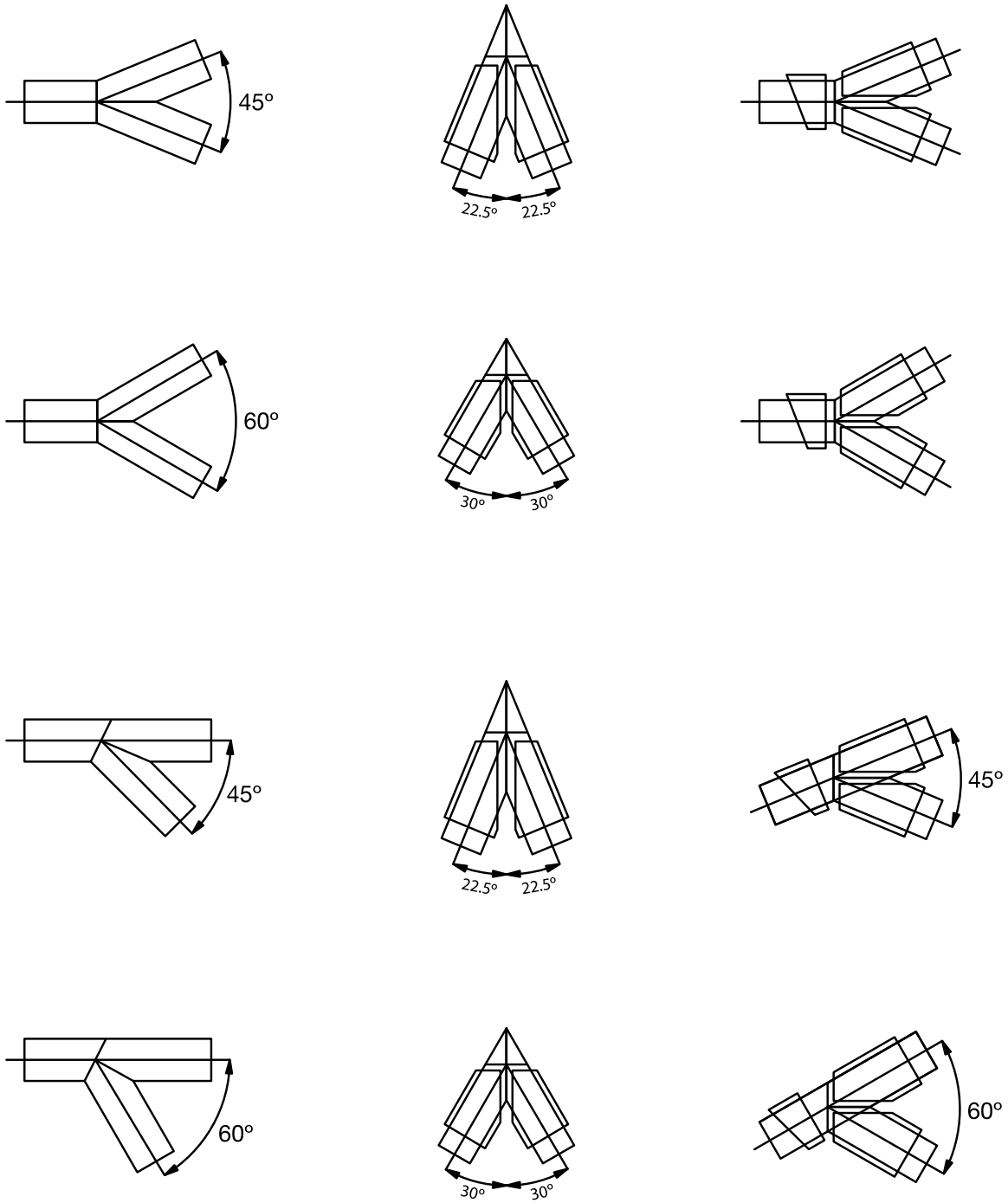
Equal Cross





Workshop Machine Fittings Diagrams

Equal Branch Tee and Wye



Pipe Saws

WJC315, WJC630, WJC800, WJC1200, WJC1600

Hydraulically operated pipe saw specifically produced for the preparation of pipe segments in PE, PP and other thermoplastic materials, used for the production of bends, tees and other fabrications. Cutting angle is up to 67 degrees. Lowering rate of saw is hydraulically controlled above WJC315, as are the strap clamps used to hold pipe segments in place. Swedish saw blade.

Technical Specifications

WJC315: 90-315mm (weight 1,400 kg)

WJC630: 110-630mm (weight 3,980 kg)

WJC800: 110-800mm (weight 4,300 kg)

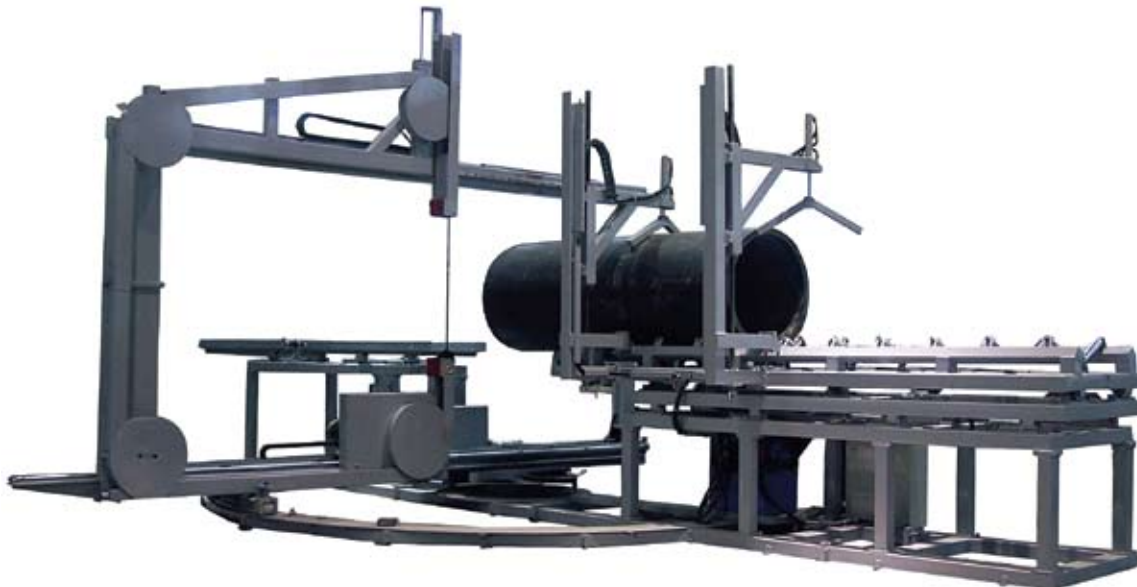
WJC1200: 630-1200mm (weight 7,000 kg)

WJC1600: 630-1600mm (weight 9,000 kg).

67 degrees maximum cutting angle.

Angular cutting error equal to or less than 1 degree.

Speed of saw blade 105 m/min.



Saddle Fusion Machines

WHM1000/315

Hydraulically operated saddle fusion machine for the production of 90 degree reducing tees, from standard PE pipe sections. Machine is constructed to allow operation by one person, incorporating main pipe clamp, branch pipe clamps, hydraulically removed heating plate with curved elements and integrated hole saw for final removal of pipe coupon.

Technical Specifications

Main pipe range 315, 355, 400, 450, 500, 560, 630, 710, 800, 900 & 1000mm.

90 degree branch pipe range 63, 90, 110, 160, 180, 200, 225, 250, 280, 315, 355, 400 & 450mm.

Complete with integrated hole-saw for completion of procedure.

Hydraulically removed heating plate with Teflon coated radius attachments.

Hydraulic loading system for main pipe.

Count-down timer for heating and cooling times (to be set by operator).

Control panel with electro-hydraulic controls.

380 volt 3 phase 50 Hz (4.2 kw), 415 volt 3 phase 50 Hz (4.9 kw). Optional 60 Hz also available.

CE approved.

Standard welding range

Type	WHM1000/315						
Main pipe \ Branch pipe	315	355	400	450	500	560	630
63	315/63	355/63	-	-	-	-	-
90	315/90	355/90	400/90	-	-	-	-
110	315/110	355/110	400/110	450/110	-	-	-
160	-	355/160	400/160	450/160	500/160	560/160	-
200	-	-	400/200	450/200	500/200	560/200	630/200
225	-	-	-	450/225	500/225	560/225	630/225
250	-	-	-	-	-	560/250	630/250
315	-	-	-	-	-	-	630/315

Main diameters up to 1000mm can be accommodated. Main outlet diameter combinations must be specified with order.





Pipe Saws

WJH315 Radius Bandsaw

Purpose built bandsaw for cutting the radius required when welding reducing tees using WHM1000/63 saddle fusion machine, or when hand fabricating pipe manifolds. Cuts pipe segment end to the correct radius.

Technical Specifications

Cuts pipe diameters 63, 90, 110, 125, 140, 160, 200, 225, 250, 280 & 315mm.

Electrically operated.

Swedish steel blade.

Manual feeding speed.

380 volt 3 phase 50 Hz (3.0 kw). Optional 60 Hz also available.



Socket Fusion Tools

WSF and WSFD Digital Range

The WSF range of socket fusion tools are suitable for PE and PP pipes and fittings. High quality design and construction provides an excellent tool for welding both on the worksite and in the factory. We are pleased to offer both our WSF (with manual control) and WSFD (with digital display and control) range of tools.

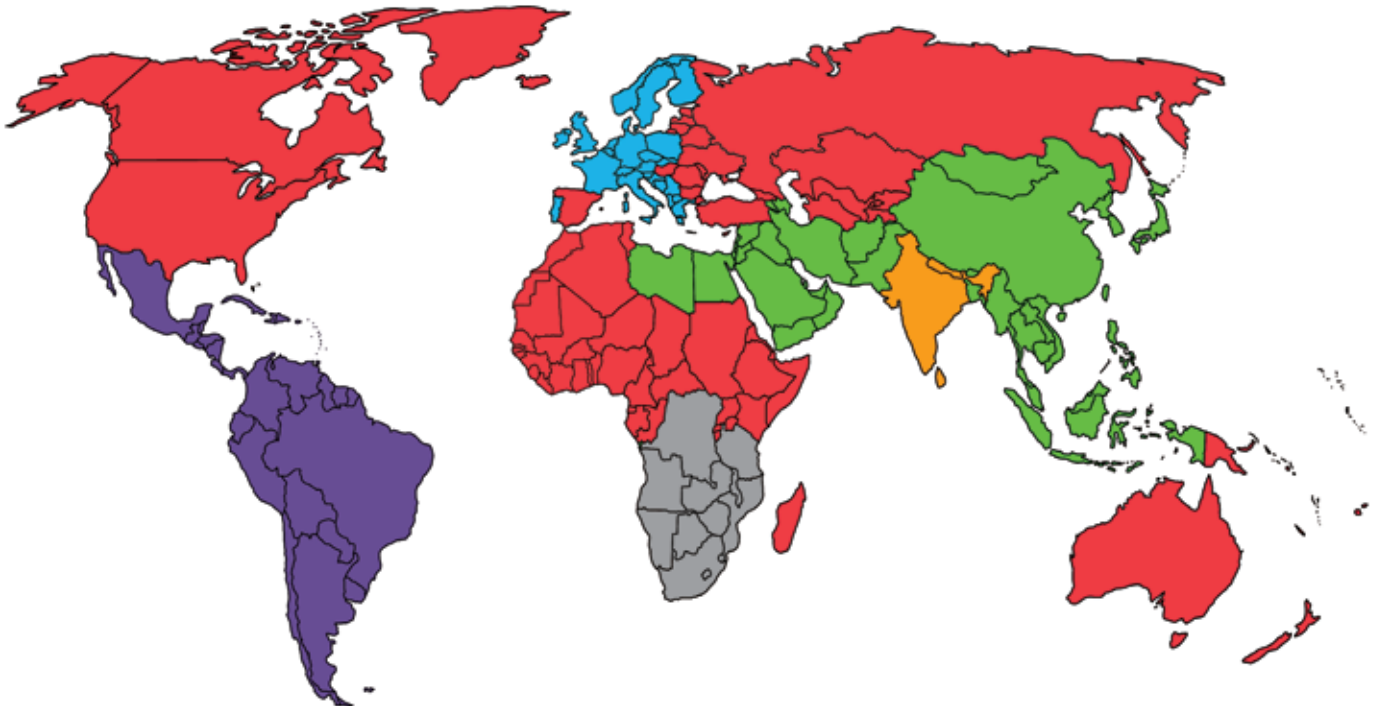
Technical Specifications

Maximum temperature of 260 degrees.


Heating time less than 10 minutes.


Model	Moulds	Heating Power
32-20	20, 25, 32	600 W
63-20	20, 25, 32, 40, 50, 63	800 W
63-16	16, 20, 25, 32, 40, 50, 63	800 W
110-75	75, 90, 110	1200 W



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