



Hydro Plast Piping Systems S.L.





ABOUT US

HYDRO≈PLAST Philosophy:

A few basic values underline our corporate philosophy. These values ensure that you, our customers, receive final products of the highest standard. Our consistency, reliability and relationships of trust that we develop with our customers and partners makes our company stand apart.

We are a group of dynamic, hard working people with great skills and product know how. Our efforts for continuous enhancement of production capacity and product development, lays the solid foundation for the present and future.

In our manufacturing processes, adaptation of vertically integrated structures and stringent quality control measures turns our products into standard setters.

HYDRO≈PLAST focus:

Our focus on the following four principles has resulted in highly competitive and reliable products.

Research: To stand out in today's markets, companies need to rapidly respond to customers changing requests. Hydroplast is committed to continuous research and innovation supported by an expert R&D team that systematically analyzes our markets to offer products that provide real solutions to specific needs.

Technology: The entire production process, from product conception to delivery to the customer, is developed using the most advanced technologies to guarantee the highest quality and to minimize errors.

Quality: Our manufacturing processes are supported by a total quality system. Our products are subjected to demanding controls, including 100% verification of all types of fittings.

Service: Customer service is a primary focus of our human resources team. Our customers have direct access to an experienced technical and sales team to address any questions they may encounter regarding our products and their applications.

The Future

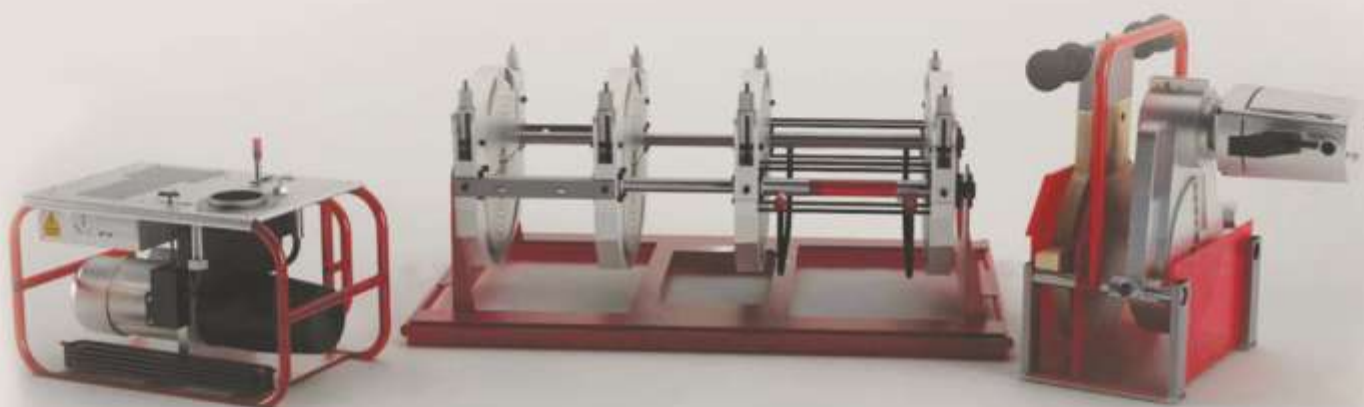
Looking back to how far we have come and our many achievements, we cannot help but feel satisfied, we view every day as the first day of a new challenge.

The Catalogue 2012 - 13

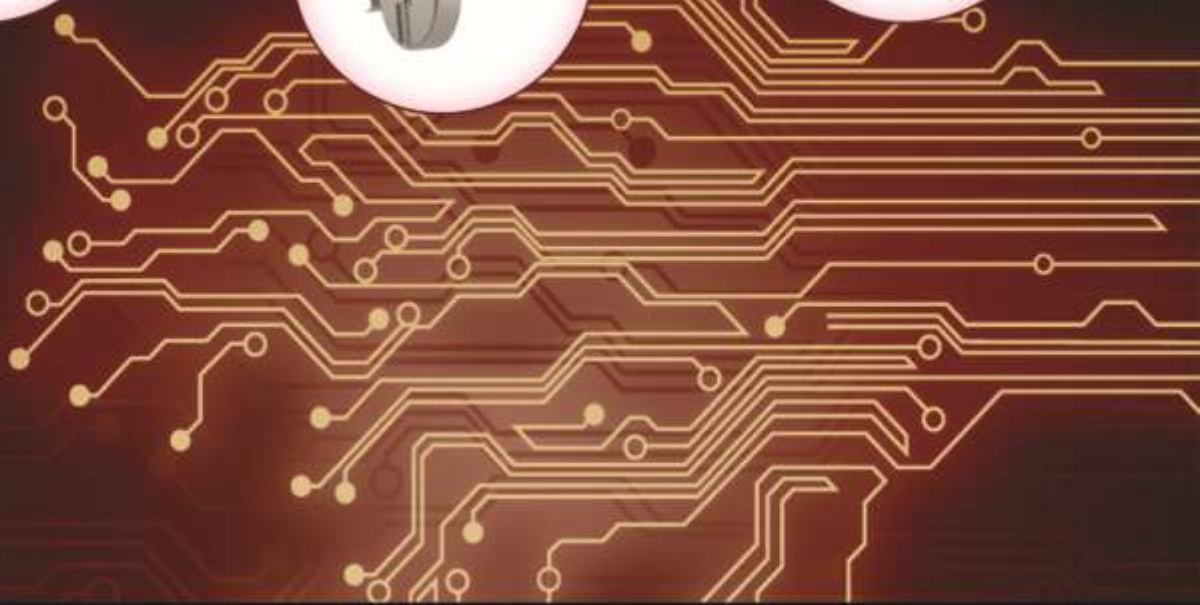
In this edition of 2012 catalogue – English version for export market, we have presented most comprehensive technical information database. As always, we thank you for your business and continued interest in our company. We look forward to serving you.



WELDING TECHNOLOGY



WELDMASTER

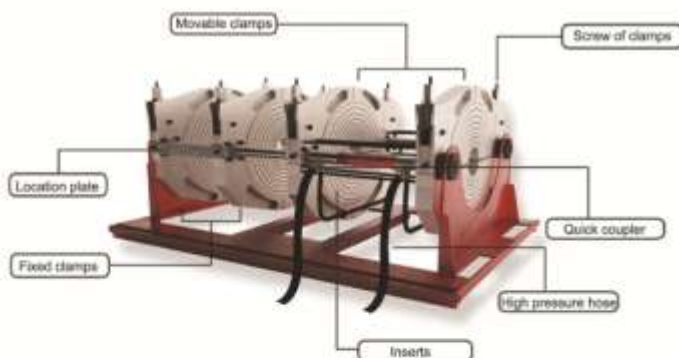


Classification

The principle of heat fusion is to heat two surfaces to a designated temperature and then fuse them together by application of force. This pressure causes the flow of the melted materials, which causes mixing and thus fusion. When the polyethylene material is heated, the molecular structure is transformed from a crystalline state into an amorphous condition. When fusion pressure is applied the molecules from each polyethylene part mix. As the joint cools, the molecules return to their crystalline form, the original interfaces are gone and the fitting and pipe have become one homogeneous unit. The joint area becomes as strong as the pipe itself in both tensile and pressure conditions.

Component of Butt Welding machine

CLAMPING UNIT



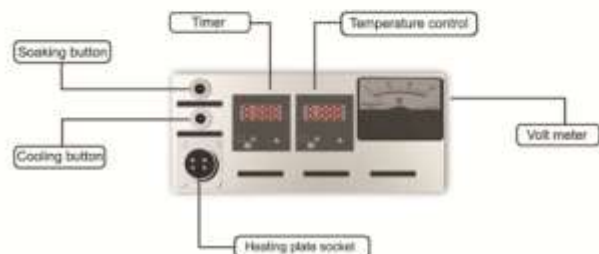
CUTTER & HEATER



HYDRAULIC UNIT



DISPLAY PANEL



Reference Standards

STANDARD	DESCRIPTION
ISO 12176-1	Equipment for fusion jointing polyethylene systems - Part 1 - Butt Fusion
ISO 12176-2	Equipment for fusion jointing polyethylene systems - Part 2 - Electro fusion

MANUAL BUTT WELDING MACHINE

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 as well as in the factory. The use of high quality aluminium castings allows for lower weight without compromising strength and performance.

Features and components:

Main frame includes light weight alloy main clamps of 160mm / 200mm diameter and torque wrench.

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.

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



Technical specification

MODEL	BMW-160M	BMW-200M
Operating range	50 - 160mm	90 - 200mm
Working Temperature	170 - 270°C	170 - 270°C
Power supply	220V, 50Hz	220V, 50Hz
Heating plate power	1.5kW	1.5kW
Planning tool power	0.7kW	0.7kW
Total power	2.2kW	2.2kW
Overall weight of machine	46KG	66KG

HYDRAULIC BUTT WELDING MACHINE

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 as well as in the factory. The use of high quality aluminum castings allows for lower weight without compromising strength and performance. Can be integrated with optional data logger or CNC control system.

Features and components:

Main frame includes 4 light weight alloy main clamps.

German hydraulic seals.

Removable cast aluminum DuPont Teflon coated heating plate with electronic temperature control.

Removable cast aluminum electric facing tool with current overload protection.

Electro hydraulic pump with controls, and quick release hoses.

Stand for heating plate and facing tool.

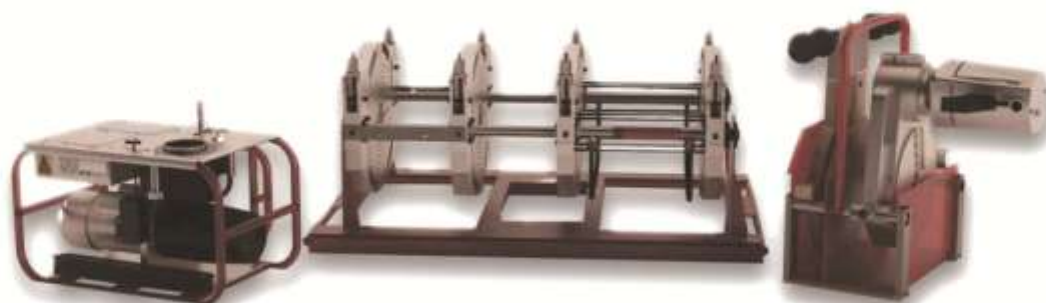
Tool box including spare blades, thermocouple, temperature controller etc.

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

Optional data logger for monitoring and recording complete jointing activities.

Optional wheeled trolley available.

Machine can be supplied with any combination of liner diameters.



Technical specification

MODEL	BMW-160H	BMW-250H	BMW-315H
Operating range	63 - 160mm	90-250mm	160-315mm
Working Temperature	170 - 270 °C	170 - 270 °C	170 - 270 °C
Operating pressure range	0-6.3Mpa	0-6.3Mpa	0-6.3Mpa
Power supply	220v, 50Hz	220v, 50Hz	220v, 50Hz
Heating plate power	1.5kW	3kW	3.5kW
Planing tool power	1.1kW	1.1kW	1.1kW
Hydraulic unit power	0.75kW	0.75kW	0.75kW
Total power	3.35kW	4.85kW	5.35kW
Overall Weight of machine	106 kg	143kg	216kg
Cylinder		11cm ²	20cm ²

HYDRAULIC BUTT WELDING MACHINE

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Features and components:

Main frame includes 4 light weight alloy main clamps.

German hydraulic seals.

Removable cast aluminium DuPont Teflon 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.

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

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

Optional wheeled trolley available.

Optional 250kg crane assembly.

Technical specification

MODEL	BMW-450H	BMW-630H
Operating range	200 - 450mm	315 - 630mm
Working Temperature	170 - 270°C	170-270°C
Power supply	380V,50Hz	380V,50Hz
Operating pressure range	0-6.3Mpa	0-6.3Mpa
Heating plate	5.38kW	9.35kW
Planing tool	1.5kW	1.5kW
Hydraulic unit power	1.5kW	1.5kW
Total power	8.33kW	12.3kW
Weight	560KG	780KG

HYDRAULIC BUTT WELDING MACHINE

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Features and components:

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Removable cast aluminium DuPont Teflon 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.

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

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

Optional wheeled trolley available.

Optional 250kg crane assembly.

Technical specification

MODEL	BMW-800H	BMW-1000H	BMW1200H
Operating range	450 - 800mm	630 - 1000mm	630 - 1200mm
Working temperature	170 - 270 °C	170 - 270 °C	170 - 270 °C
Operating pressure range	0-16Mpa	0-16Mpa	0-16Mpa
Hydraulic plate power	3kW	3kW	3kW
Power supply	380v,50Hz	380v,50Hz	380v,50Hz
Heating plate power	12.5kW	17.5kW	21.5kW
Planning tool power	2.2kW	3kW	4kW
Crane power	0.5kW	0.5kW	1kW
Total power	18.2kW	24kW	29.5kW
Weight	1360kg	2600kg	2740kg

ELECTROFUSION WELDING MACHINE

Features and components:

High level MCU is used as control core for accurate measurement setting and perfect protective function.

Improved user interface with helpful on-screen prompts.

Bright display with automatic contrast adjustment of the screen.

Multi-lingual display; the language can be changed at the touch of a button.

Convenient on-screen display at all times of remaining joint record memory capacity & time.

Displays input supply voltage, time and date.

10 phase programmable welding function, suitable for welding requirement of various fittings.

Joint record data is stored in internal memory and is automatically backed up to a removable SD card for complete security.

Count-up timer at the end of jointing allows the cooling time to be monitored.

Robust construction employing high quality die-cast aluminium enclosure.

IP54 rated to EN60529 preventing ingress of water and dirt.

Data input can be made manually through a keyboard as well as through bar code scanning.



Technical specification

MODEL	Electro fusion welding machine
Input voltage	48V \pm 10%, 220V \pm 20% or 380V \pm 20%
Input frequency	40-65Hz
Output voltage	48V
Output power	3.5kW/12kW
Control mode	Constant volt / Constant current / Constant power
Recording number of idea	500
Time control precision	< \pm 0.01%
Temperature measuring precision	< \pm 0.5 $^{\circ}$ C
Data output port	RS232
Packing size (mm)	330x200x270

Notes

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Notes

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● Sales Terms

The specifications contained in this document are applicable to any order. Any modifications will require the written acceptance of HYDROPLAST piping systems S.L. The specifications and rates may be revised at any time with respect to all or any of the orders in progress at the date of revision.

Orders: Orders must be placed in writing and indicate the references and specifications contained in the official catalogue of HYDROPLAST piping systems S.L. maintaining the amounts shown therein.

Delivery: The date of dispatch of the orders from our warehouses will be the date of delivery. Orders may be partly filled without this implying their cancellation.

Prices: The prices shown on the price list of HYDROPLAST piping systems S.L. include packaging; any other expenses, such as taxes or local assessments, will be for the account of the purchaser. Invoices will be issued upon delivery at the prices applicable on the date of despatch.

Transport: The transport of goods is the entire responsibility of the purchaser, even in those cases in which it is carried out on a carriage paid basis. Other expenses not specified in our price list (packing for transport by sea or air, etc) shall be for the account of the purchaser.

Warranty: HYDROPLAST piping systems S.L. products are warranted for **one year** from the date of despatch of the goods against any problem deriving from a defect of manufacture.

The warranty of our materials is limited to the replacement of the product, model or component recognized as defective. The expenses of return and reshipment shall be for the account of the purchaser.

Payment: All payments shall be made in cash except in those cases in which a written agreement exists. Modifications in the term of payment or in the form or date thereof, must have our written authorization. Any expense, tax or local levy applicable after the order has been placed shall be for the account of the purchaser.

The purchaser shall reimburse to the seller by way of damages any bank and judicial charges incurred as a result of the return of dishonoured drafts.

Claims and returns: No returns or claims shall be admitted after 10 days from the receipt of your order. If your claim is accepted by HYDROPLAST piping systems S.L. you should send us the defective material properly packed, the expenses of shipment being for your account.

If a return is not approved by HYDROPLAST piping systems S.L. any risk or expenses shall be for the account of the purchaser, a 10% handling cost will be applicable.

Cancellation: HYDROPLAST piping systems S.L. reserves the right to cancel or terminate any sales operation in the event that any of the conditions set out herein is not fulfilled, as well as in the event of non-payment, in whole or in part, of any order or any delay in payment of any previous order, or if it is necessary to bring executive proceedings against the purchaser or if the purchaser is declared in suspension of payment or bankruptcy.

Reservation of title: The materials supplied shall remain the property of HYDROPLAST piping systems S.L. until they have been paid for.

HYDROPLAST piping systems S.L. reserves the right to remove the goods, in whole or in part, from the premises of the purchaser if the purchaser fails to make any payment.

Competent jurisdiction: For the settlement of any disputes that may arise in connection with the application of these conditions, both HYDROPLAST piping systems S.L. and the purchaser agree to submit to the Courts and Tribunals of Spain, waiving their right to any other jurisdiction to which may be entitled.

The contents of this document and the specifications of our products may be modified, in whole or in part by HYDROPLAST piping systems S.L. without prior notice.

www.hydroplast.es

Whilst every effort is taken to ensure the accuracy of the information contained within this catalogue, HYDROPLAST piping systems S.L. accepts no liability for any errors or omissions.

Due to our continuous product improvement policy we reserve the right to modify product specifications in line with market requirements.

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