

SERVICE QUALITY GUARANTEE

Our quality management system according to IS EN ISO 9001:2000 guarantees a high level of all internal affairs, from order processing up to dispatch and service of our products.



also supply...

- PE pressure pipe for wastewater and industrial use
- PVC-U pressure pipe for potable water
- PE domestic gas distribution systems
- PP/PE corrugated stormwater systems
- PP/PE corrugated drainage systems
- PE Industrial pressure pipe (solid wall/slotted)
- PP pressure pipe (single and double contained)
- PE leachate collection systems
- PE landfill gas extraction systems
- PP PE cable ducting
- PE marine outfall systems/diffusers
- Full range of fittings for above systems
- PE, PP, PVDF welding equipment
- PE, PP sumps, manholes, chambers
- Chemical storage tanks (double or single contained)
- Leak detection systems
- Valves, flowmeters, mechanical fittings
- Telescopic systems - vertical or horizontal
- PE, PP, PVDF manifold systems
- Fibre optic cable protection systems
- Ducting / ventilation systems
- Gas collection wellheads
- Pressure - vibration / expansion joints
- Welding / fabrication service

*Certified calibration service - repairs - spare parts - upgrading
from Irish based service department certified by equipment manufacturer*



NATIONWIDE DELIVERY



ALL PRODUCTS/EQUIPMENT SUPPLIED WITH MANUFACTURER'S CERTIFICATION TO IS/EN STANDARDS



Butt Fusion Welding Equipment

PE, PP, PVDF APPLICATIONS

PT Series

Hydraulic operated butt-fusion welding machines suitable for PE, PP, PVDF and other thermoplastic pipes and fittings. The self-aligning frame and the compact dimensions make the machines highly suitable for working in road construction, ditches, aqueducts, gas ducts, sewers and irrigation systems. All PT-machines are equipped with SPG-connections.



The basic machine is equipped with four main clamps. The third clamp can be axially moved and adjusted for the welding of fittings. The basic machine also includes an automatic detaching device especially designed to break off the melted pipe ends from the heating plate at the end of heating time.



Removable PTFE-coated heating plate with an electronic temperature control.

Removable electric cutter with a reduction gear and reversible double cutting edge blades. Safety microswitch means the cutter can only be started when it is locked in the working position. A mechanical lock prevents disengagement of the cutter during the operation.



The heater plate and cutter are supplied with a solid case for storage and transport. The hydraulic unit supplies the welding machine with compressive power to enable exact pressure to be reached in all cases, while the accumulator ensures that the pressure is kept stable throughout the welding process. Eight lightweight reduction inserts are included - 6 wide inserts for pipes and 2 narrow inserts for fittings.



Stub-end holder for pipe-to-flange connections.

SPG and CNC Models

The SPG-protocolling units are developed and designed to provide a full-function protocolling system for existing machine systems, ie. the SPG is suitable for all hydraulically operated butt fusion machines available on the market. The complete welding cycle is recorded, so all possibilities for traceability according to ISO-Norm TC 138 are given. The clear menu layout guides the welder step by step through the welding process.



Semi-automatic WHA butt fusion machine for joining of PE and PP pipes.

This machine is developed and designed to achieve extremely short change-over times. Its hydraulic clamps ensure easy handling of large diameter pipes. The machine is equipped with an automatic insertion device for the heater plate and a special lightweight pipe-end trimmer. The welding cycle is automatic with acknowledgement of the bead formation.



The development of the CNC is based on the concept of the SPG data loggers, which have demonstrated their quality and suitability in daily use.

The cutting procedure runs automatically after the cutting device has been installed manually. After the preparation procedure (including cutting, alignment control, cleaning, bead formation control, removal of heater plate) the automatic welding cycle starts. The welder will now be continuously informed about the progress of the welding procedure, by the easy to read 4-line-display on the LED welding diagram.



SPG 2000

Technical Data:

Input Voltage	100V - 240 V
Input frequency	40 Hz - 80 Hz
Weight	4 kg
Dimensions	240 x 200 x 125 mm
Protection class box	IP 54

Features:

- Integrated microprinter
- Simple operating procedure via menu guiding
- Menu guiding in several languages
- Alpha-numeric keyboard with welding diagram
- PC-interface (RS 232), printer interface (Centronics)
- Number of reports 1000
- Display 4 x 20 digits with background illumination
- Function for configuration of the protocol
- Welding procedure will be shown via LEDs

Traceability:

- Pipe codes (max. 40 digits, ISO)
- Traceability-code (26 digits, ISO)
- Weather (DVS)
- Additional data (max. 20 digits)



Optional:

Software DATAWORK to process memory of SPG-CNC and HST (Electrofusion Machine) to PC or Notebooks.

SPG 2000 basic

Technical Data:

Input Voltage	100V - 240 V
Input frequency	40 Hz - 80 Hz
Weight	4 kg
Dimensions	240 x 185 x 120 mm
Protection class box	IP 54

Features:

- Simple operating procedure via menu guiding
- Menu guiding in several languages
- Printing in several languages
- Alpha-numeric keyboard with welding diagram
- PC-interface (RS 232), printer interface (Centronics)
- Number of reports 1000
- Display 4 x 20 digits with background illumination
- Function for configuration of the protocol
- Welding procedure will be shown via LEDs

Traceability:

- Pipe codes (max. 40 digits, ISO)
- Traceability-code (26 digits, ISO)
- Weather (DVS)
- Additional data (max. 20 digits)



Optional:

Software DATAWORK to process memory of SPG-CNC and HST (Electrofusion Machine) to PC or Notebooks.

PT CNC basic series

Machine composition:

Basic machine including sensors for movement control and heater plate in/out detection.

Optional with distance measuring control (up to PT 630 CNC).

Control unit with hydraulic and computer. Software DATAWORK to process memory of SPG-CNC and HST (Electrofusion Machine) to PC or Notebooks.



PTFE-coated heating mirror controlled by the CNC unit. Optional with jumping-out device (up to PT 500 CNC). Electric facing tool with semi-automatic function, controlled by the CNC unit.

- Support for facing tool and mirror.
- Reducing inserts for pipes and fittings.
- Stub device.
- Transport box.



WHA 800 (fully hydraulic) 400V 50Hz - 25 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 450 - 800	
Basic machine with hydraulically moving clamps	OD 800	
Heating element with 8 control points mounted to the machine frame		
Patented pipe end trimmer		
Integrated hydraulic system		
Reducing inserts for pipes and fittings	OD 450, 500, 560, 630, 710	
Stub device	OD 450 - 710	
Packing		
Total Weight		1350



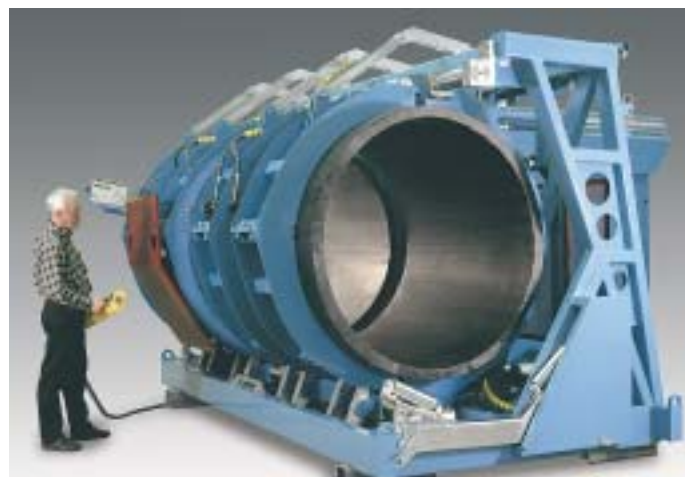
WHA 1200 (semi-automatic) 400V 50Hz - 54 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 710 - 1200	
Basic machine with hydraulically moving clamps		
Automatic welding cycle with acknowledgement of the bead. Controlled by the SPG-module	OD 800	
Heating element with 8 control points mounted to the machine frame		
Patented pipe end trimmer		
Integrated hydraulic system.		
Hydraulic pressure controlled by PLC (Programmed Logic Control)		
Reducing inserts for pipes and fittings	OD 450, 500, 560, 630, 710	
Stub device	OD 450 - 710	
Packing		
Total Weight		4800



WHA 1200 (semi-automatic) 400V 50Hz - 54 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 710 - 1200	
Basic machine with hydraulically moving clamps		
Automatic welding cycle with acknowledgement of the bead. Controlled by the SPG-module	OD 800	
Heating element with 8 control points mounted to the machine frame		
Patented pipe end trimmer		
Integrated hydraulic system. Hydraulic pressure controlled by PLC (Programmed Logic Control)		
Reducing inserts for pipes and fittings	OD 450, 500, 560, 630, 710	
Stub device	OD 450 - 710	
Packing		
Total Weight		5500



PT 125 230V 50Hz (standard) - 1.5 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 40 - 125	
Basic machine	OD125	15
PTFE-coated mirror with electronic thermostat		4
Electric facing tool with safety micro switch		5
Support for facing tool and mirror		4
Hydraulic unit		24
Reducing inserts for pipes and fittings	OD 40, 50, 63, 75, 90, 110	9
Transport box		15
Total Weight		76



PT 125

PT 160 230V 50Hz (standard) - 2.1 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 40 - 160	
Basic machine	OD160	35
PTFE-coated mirror with electronic thermostat		5
Electric facing tool with safety micro switch		11
Support for facing tool and mirror		7
Hydraulic unit		24
Reducing inserts for pipes and fittings	OD 40, 50, 63, 75, 90, 110, 125, 140	9
Stub device	OD 40 - 160	4
Transport box	100 x 95 x 75	27
Total Weight		130

PT 200 230V 50Hz (standard) - 2.7 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 63 - 200	
Basic machine	OD 200	46
PTFE-coated mirror with electronic thermostat		7
Electric facing tool with safety micro switch		13
Support for facing tool and mirror		8
Hydraulic unit		24
Reducing inserts for pipes and fittings	OD 63, 75, 90, 110, 125, 140, 160, 180	29
Stub device	OD 63 - 200	9
Transport box	100 x 95 x 75	31
Total Weight		167



PT 160, PT 200, PT 250

PT 250 230V 50Hz (standard) - 3.3 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 63 - 250	
Basic machine	OD 250	48
PTFE-coated mirror with electronic thermostat		21
Electric facing tool with safety micro switch		16
Support for facing tool and mirror		8
Hydraulic unit		24
Reducing inserts for pipes and fittings	OD 63, 75, 90, 110, 125, 140, 160, 180, 200, 225	54
Stub device	OD 63 - 250	9
Transport box	105 x 100 x 76	34
Total Weight		216

PT 315 230V 50Hz (standard) - 4.8 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 90 - 315	
Basic machine	OD 315	79
PTFE-coated mirror with electronic thermostat		19
Electric facing tool with safety micro switch		27
Support for facing tool and mirror		14
Hydraulic unit		28
Reducing inserts for pipes and fittings	OD 90, 110, 125, 140, 160, 180, 200, 225, 250, 280	100
Stub device	OD 90 - 315	14
Transport box	126 x 114 x 85	48
Total Weight		329

PT 355 230V 50Hz (standard) - 4.8 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 90 - 355	
Basic machine	OD 355	96
PTFE-coated mirror with electronic thermostat		19
Electric facing tool with safety micro switch		29
Support for facing tool and mirror		15
Hydraulic unit		28
Reducing inserts for pipes and fittings	OD 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	118
Stub device	OD 90 - 315	16
Transport box	126 x 114 x 85	55
Total Weight		376

PT 500 230V 50Hz (standard) - 8.4 kW

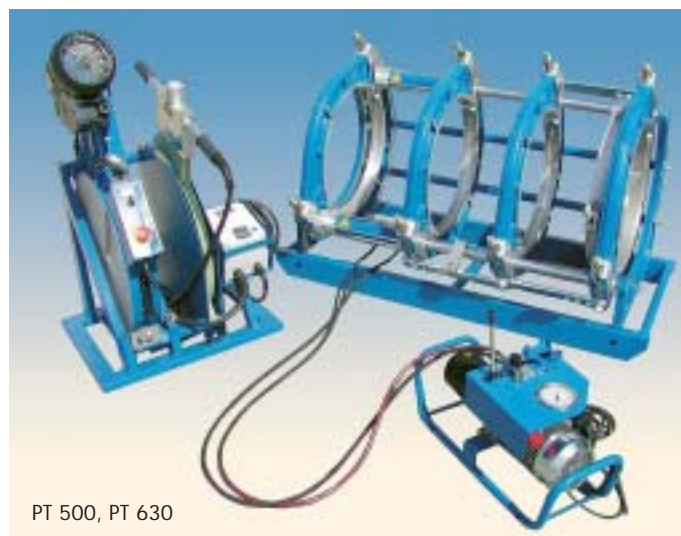
Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 200 - 500	
Basic machine	OD 500	171
PTFE-coated mirror with electronic thermostat		27
Electric facing tool with safety micro switch		61
Support for facing tool and mirror		30
Hydraulic unit		28
Reducing inserts for pipes and fittings	OD 200, 225, 250, 280, 315, 355, 400, 450	133
Stub device	OD 63 - 250	33
Transport box	105 x 100 x 76	130
Total Weight		613

PT 630 400V 50Hz (standard) - 11.5 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 315 - 630	
Basic machine	OD 630	229
PTFE-coated mirror with electronic thermostat		43
Electric facing tool with safety micro switch		107
Support for facing tool and mirror		45
Hydraulic unit		28
Reducing inserts for pipes and fittings	OD 315, 355, 400, 450, 500, 560	133
Stub device	OD 63 - 250	33
Crane with electrical hoist		
Transport box	177 x 157 x 131	150
Total Weight (without crane)		903



PT 315, PT 355



PT 500, PT 630

PT 800 400V 50Hz (standard) - 13.9 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 450 - 800	
Basic machine	OD 800	565
PTFE-coated mirror with electronic thermostat		59
Electric facing tool with safety micro switch		160
Support for facing tool and mirror		62
Hydraulic unit		38
Reducing inserts for pipes and fittings	OD 450, 500, 560, 630, 710	280
Stub device	OD 450 - 800	42
Crane with electrical hoist		
Packing		80
Total Weight (without crane)		1286

PT 1000 400V 50Hz (standard) - 17.4 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 630 - 1000	
Basic machine	OD 1000	1100
PTFE-coated mirror with electronic thermostat		90
Electric facing tool with safety micro switch		284
Support for facing tool and mirror		200
Hydraulic unit		45
Reducing inserts for pipes and fittings	OD 630, 710, 800, 900	730
Stub device	OD 630 - 1000	45
Crane with electrical hoist		
Packing		120
Total Weight (without crane)		2614

PT 1200 400V 50Hz (standard) - 21.7 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 630 - 1200	
Basic machine	OD 1200	1300
PTFE-coated mirror with electronic thermostat		140
Electric facing tool with safety micro switch		315
Support for facing tool and mirror		240
Hydraulic unit		45
Reducing inserts for pipes and fittings	OD 630, 710, 900, 1000	920
Stub device	OD 630 - 1200	150
Crane with electrical hoist		
Packing		150
Total Weight (without crane)		3260

PT 1600 400V 50Hz (standard) - 54 kW

Machine Composition	sizes (mm)	weight (kg)
Welding range	OD 1000 - 1600	
Basic machine	OD 1600	2560
PTFE-coated mirror with electronic thermostat		260
Electric facing tool with safety micro switch		858
Support for facing tool and mirror		460
Hydraulic unit		45
Reducing inserts for pipes and fittings	OD 1000, 1200, 1400	1460
Stub device	OD 630 - 1200	350
Crane with electrical hoist		
Packing		200
Total Weight (without crane)		6193



PT 800, PT 1200



PT 1200, PT 1600