

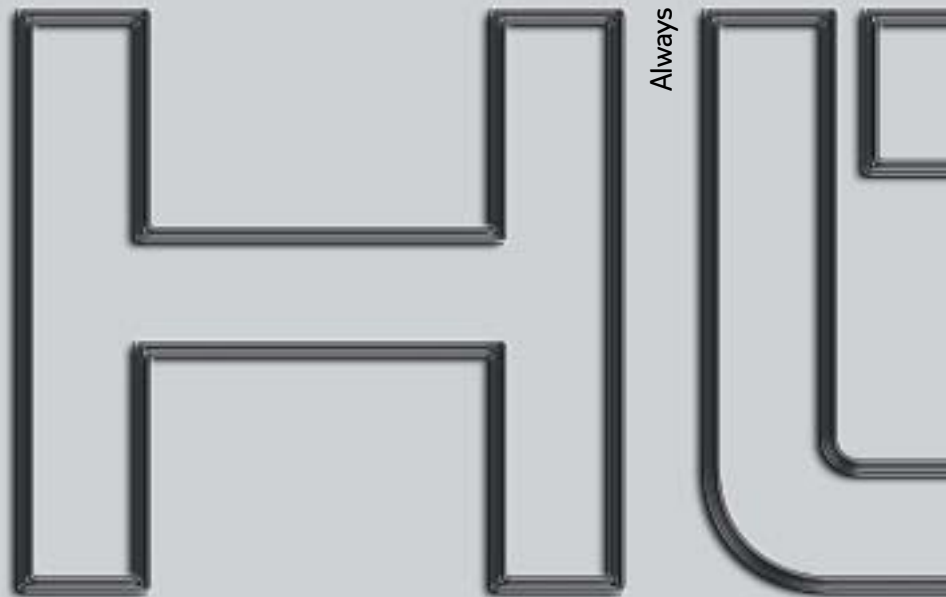
Quality

You Wouldn't Want to Miss

CNC ECO Line

Heating Element Butt-Welding Machines:
Easy and Reliable Automation of
Butt-Welding Applications
up to OD 630mm!

Always Striving For Success ...



The **HÜRNER** CNC ECO Line Heating Element Butt-Welding Machines, that's 5 machine sizes for PE, PP, and PVDF pipe applications from OD 40mm through to OD 630mm. Every machine is shipped complete with the basic machine with a frame mover push-button, the CNC controlled hydraulic unit, a pipe facing tool with safety switch, an anti-adhesion coated heating element, a carrying case, and a transport box.

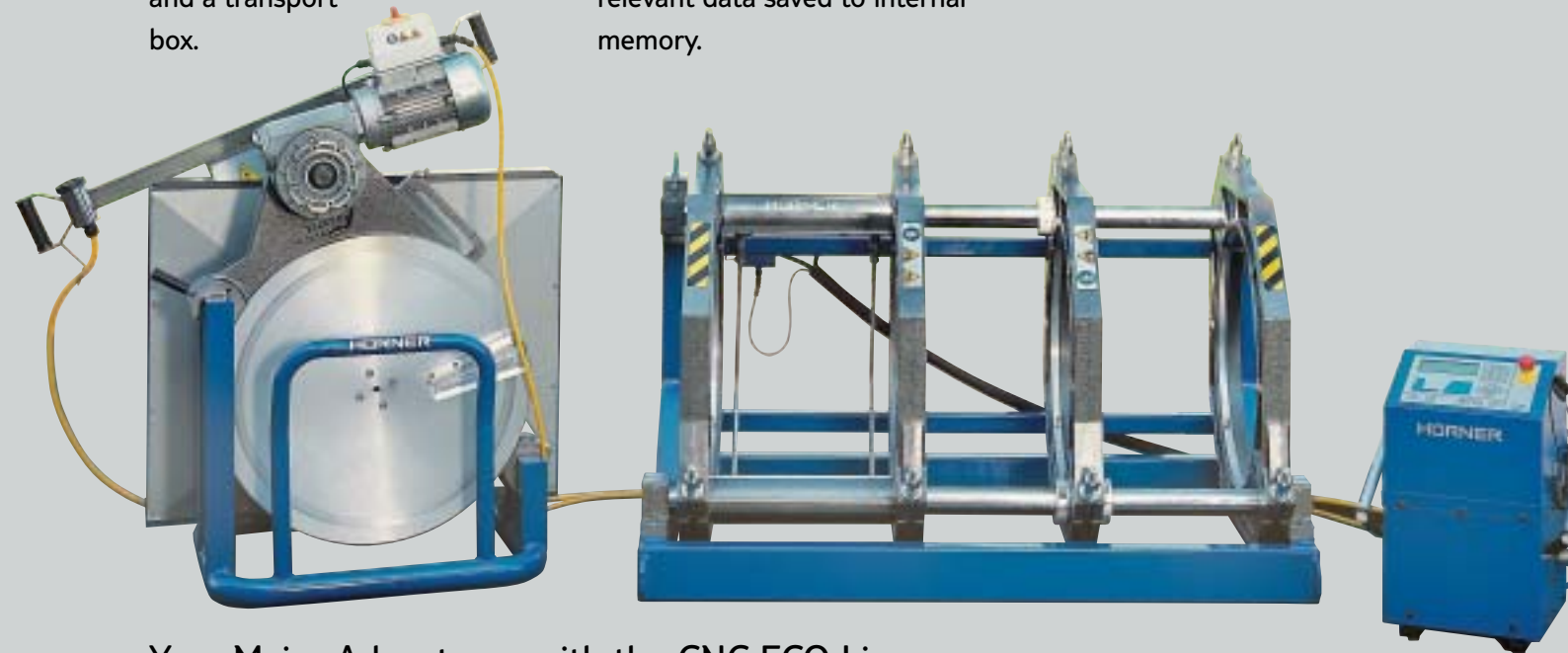
With a comprehensive set of reducer inserts, no nominal pipe diameter is incompatible with our machines.

Easy to use input screens and selection menus allow intuitive input of pipe material, size, and thickness, SDR pressure values, and traceability data.

The welding process proper is then performed and monitored automatically by the **HÜRNER** CNC ECO and the relevant data saved to internal memory.

These welding data can be processed on a standard PC with Hürner's welding report management and database software DataWork, or sent to a desktop printer.

Of course, DataWork is also your assistant when it comes to archiving and managing simultaneously the welding reports generated with **HÜRNER**'s HST300 Line of electrofusion welding units.



Your Major Advantages with the CNC ECO Line

- Frame mover push-button on the basic machine**
This push-button does not only allow moving the machine frame; it is also a switch that will validate various steps of the welding process, such as pipe facing or pipe alignment check.
- Calculation of all times and pressures relevant to the welding process**
- Automatic regulation of the heating element temperature, depending on pipe characteristics**
- Dual visual welding safety control**
Pressure and welding time values are shown on the large backlit display and represented by LEDs located on the welding process diagram.
- Self-monitoring welding system**
The integrated self-monitoring welding system keeps constantly track of welding pressure, welding time, change-over delay, heating element temperature, and potential power supply failure.
- Internal memory for up to 1,000 welding reports**
Reports can then be transferred from memory to a PC, a desktop printer, or an external data storage module using the parallel, serial, or USB interface.
- Automatic measuring of ambient temperature**
- Easy data input on alphanumeric keypad**
- Welding process controlled under various nationally applicable standards**
HÜRNER CNC ECO controls the welding process under the standard you need in your area: DVS, INSTA, WIS, UNI, etc. If you need a standard that is not in the machine yet, it can be installed upon request.
- Traceability capabilities conforming to the most recent traceability standards**
- Error-proof input of pipe, fitting, and welder ID codes with a scanning wand**

CNC 630 ECO

P/N 200-600-630

Butt-welding machine for welding PE, PP, and PVDF pipes and fittings OD 355 - 630mm, for all pressure levels

- CNC-controlled hydraulic unit
 - + data input with intuitive menus (material, size, SDR, traceability)
 - + automatic calculation, control, and regulation of all welding pressures and times
 - + regulation of heating element temperature
 - + integrated welding monitoring system
 - + automatic report generation, capacity up to 1,000 reports
 - + data transfer to PC (with DataWork software) or printer via RS232, parallel, or USB interface
 - + traceability capabilities under the most recent standards
 - + welding process control under various standards: DVS, WIS, UNI, WIS-M, INSTA, etc.
 - + Languages: German, English, French, Russian, Portuguese, Spanish, Finnish

- Basic machine up to OD 630mm
- Facing tool with micro safety switch
- PTFE-coated heating element
- Carrying case for heating element and facing tool
- Transport box
- Suspension rack for heating element and facing tool (optional)

Technical Specs

Power Supply: 400V, 50Hz, 3 P + N
 Power: 11.5kW
 Operating Range: 355 - 630mm
 Reducer Inserts: OD 355, 400, 450, 500, 560, stub end holder

CNC 500 ECO

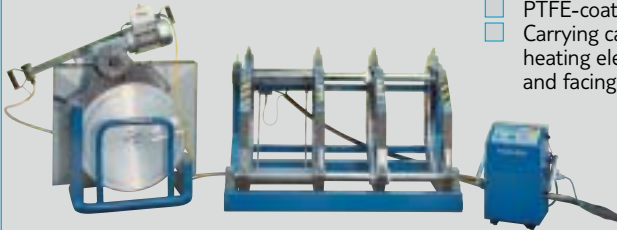
P/N 200-600-500

Butt-welding machine for welding PE, PP, and PVDF pipes and fittings OD 200 - 500mm, for all pressure levels

- CNC-controlled hydraulic unit
Same characteristics as CNC 630 ECO

- Basic machine up to OD 500mm
- Facing tool with micro safety switch
- PTFE-coated heating element
- Carrying case for heating element and facing tool

- Suspension rack for heating element and facing tool (optional)
- Transport box



Technical Specs

Power Supply: 400V, 50Hz, 3 P + N
 Power: 8.4kW
 Operating Range: 200 - 500mm
 Reducer Inserts: OD 200, 225, 250, 280, 315, 355, 400, 450, stub end holder

CNC 315 ECO

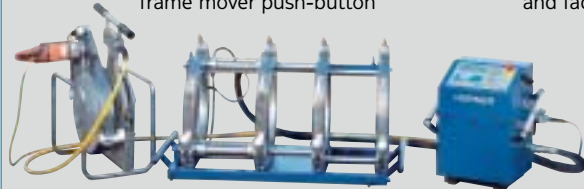
P/N 200-600-315

Butt-welding machine for welding PE, PP, and PVDF pipes and fittings OD 90 - 315mm, for all pressure levels

- CNC-controlled hydraulic unit
Same characteristics as CNC 630 ECO
- Basic machine up to OD 315mm with frame mover push-button

- Facing tool with micro safety switch
- PTFE-coated heating element
- Carrying case for heating element and facing tool

- Transport box



Technical Specs

Power Supply: 230V, 50Hz, 1 P
 Power: 4.54kW
 Operating Range: 90 - 315mm
 Reducer Inserts: OD 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, stub end holder

CNC 250 ECO

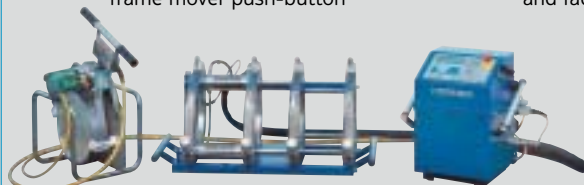
P/N 200-600-250

Butt-welding machine for welding PE, PP, and PVDF pipes and fittings OD 75 - 250mm, for all pressure levels

- CNC-controlled hydraulic unit
Same characteristics as CNC 630 ECO
- Basic machine up to OD 250mm with frame mover push-button

- Facing tool with micro safety switch
- PTFE-coated heating element
- Carrying case for heating element and facing tool

- Transport box



Technical Specs

Power Supply: 230V, 50Hz, 1 P
 Power: 3.54kW
 Operating Range: 75 - 250mm
 Reducer Inserts: OD 75, 90, 110, 125, 140, 160, 180, 200, 225, stub end holder

CNC 160 ECO

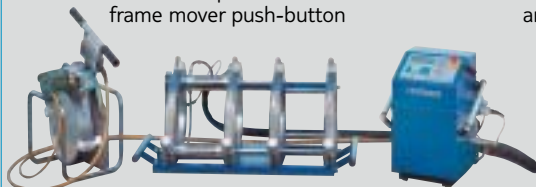
P/N 200-600-160

Butt-welding machine for welding PE, PP, and PVDF pipes and fittings OD 40 - 160mm, for all pressure levels

- CNC-controlled hydraulic unit
Same characteristics as CNC 630 ECO
- Basic machine up to OD 160mm with frame mover push-button

- Facing tool with micro safety switch
- PTFE-coated heating element
- Carrying case for heating element and facing tool

- Transport box



Technical Specs

Power Supply: 230V, 50Hz, 1 P
 Power: 2.25kW
 Operating Range: 40 - 160mm
 Reducer Inserts: OD 40, 50, 56, 63, 75, 90, 110, 125, 140, stub end holder

HÜRNER

SCHWEISSTECHNIK



- PE Electrofusion Welding Units
- PE Butt-Welding Machines
- Tools for PE Piping Applications
- Engineering Plastics
- Pipeline Design Software
- Customized Engineering Solutions



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