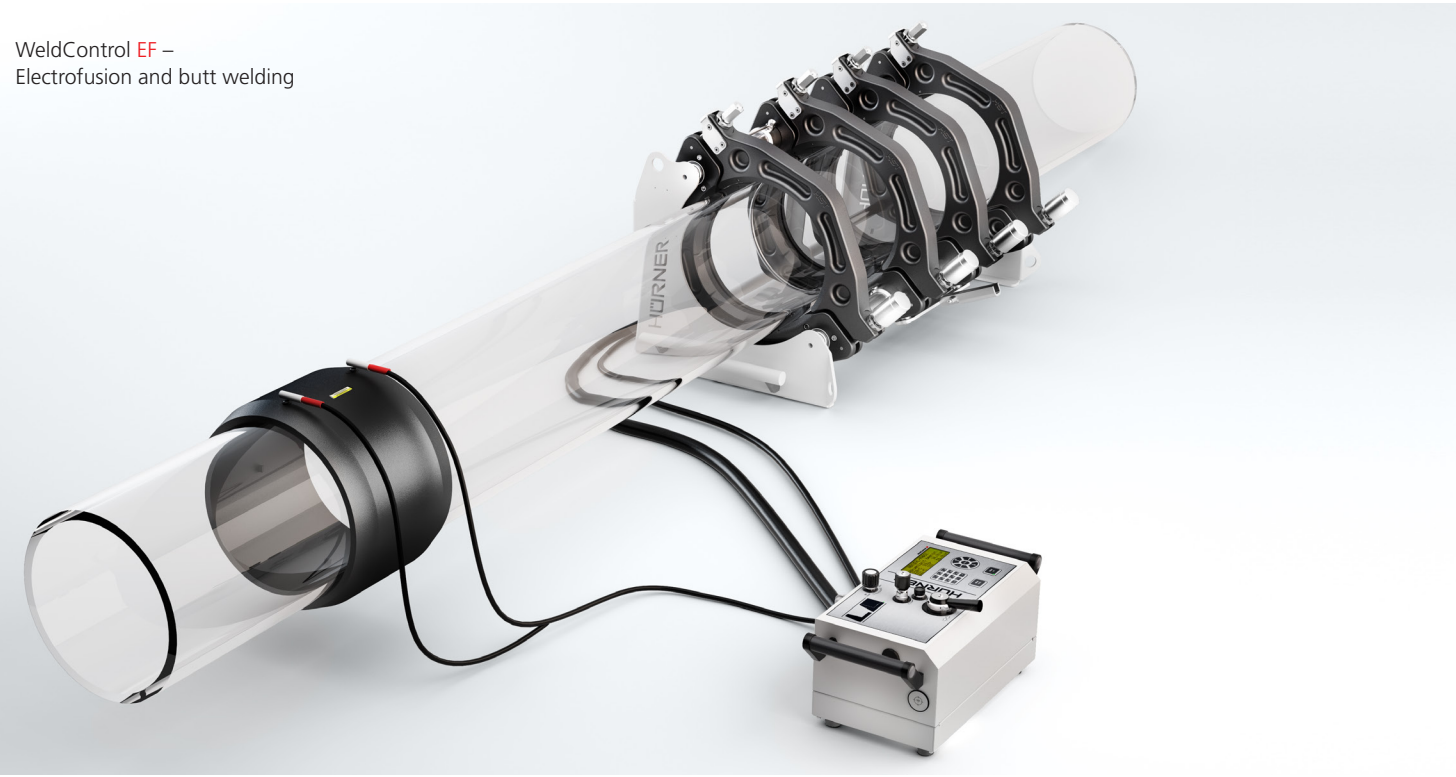


WeldControl EF –
Electrofusion and butt welding



Removable welding cable

The redesigned, removable 4 m welding cable that builds on the renowned HST 300 2.0 line of products is one key for the fast and easy switch from the WeldControl mode to the electrofusion mode without any further tools.

That's why it takes mere seconds to turn a butt-welding hydraulic unit into a compact and construction site-suitable electrofusion welder with fully fledged recording capabilities.



Label tag printer

Just as the well-known electrofusion welders of the generation WhiteLine, the WeldControl EF also offers automation of component labelling, which used to require the manual use of marker pens. No need anymore to write the cooling time or any other remark onto the pipe. The data transfer menu allows printing off a mini-summary of a selected welding report on a label tag printer. The abrasion-proof plastic tag is then simply affixed to the fitting or pipe. The tried and tested download methods via USB A, abstract or extended report as well as report in the DataWork format, will of course continue to be available.



GT keypad

The standard versions of the Generation WhiteLine welders ship with a state-of-the-art high-resolution, temperature range-extended character display. The novel GT keypad allows convenient input of all required parameters. The input is possible as you would use a traditional mobile device with a keypad. Another unique functionality is the ViewWeld feature. It enables browsing, viewing, and checking the logged welding reports on the display screen of the welder, without any need to print the reports off.

You want to learn more about us?

Feel free to ask for a meeting on our premises. Detailed information on the company and on our product range is also available on-line at www.huerner.de



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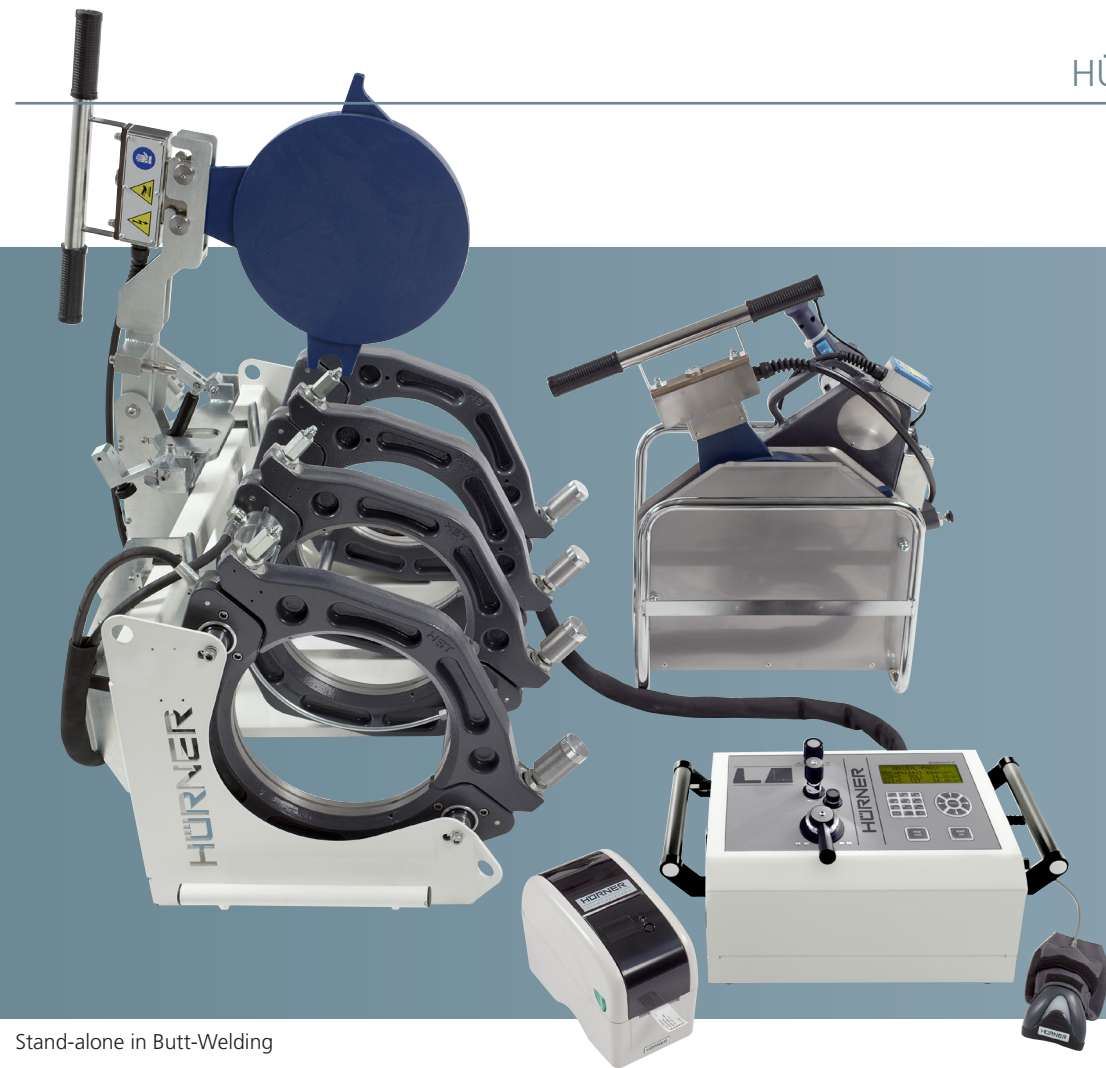
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HÜRNER WhiteLine
WeldControl EF



Stand-alone in Butt-Welding

Technical Specifications	160 mm	200 mm	250 mm	315 mm	355 mm
Part Number	200-705-160	200-705-200	200-705-250	200-705-315	200-705-355
Electrofusion mode EF:					
Welding range, diameter (mm)	up to 355	up to 355	up to 355	up to 355	up to 355
Data input for e-fitting: ■ with bar code scanner ■ manually (numeric code or voltage, time) ■ Fusamatic optional	■	■	■	■	■
Electrofusion monitoring system	■	■	■	■	■
Output voltage	8 - 48 V	8 - 48 V	8 - 48 V	8 - 48 V	8 - 48 V
Standard-compliant ISO 12176 traceability	■	■	■	■	■
WeldControl mode:					
Welding range, O.D. (mm)	40 - 160	63 - 200	(63) 75 - 250	90 - 315	90 - 355
Standard-compliant ISO 12176 traceability	■	■	■	■	■
Welding monitoring system: welding pressures and times, ambient temperature, memory control, operating temperature, heating element temperature	■	■	■	■	■
Reducer inserts	40, 50, 63, 75, 90, 110, 125, 140	63, 75, 90, 110, 125, 140, 160, 180	(63)*, 75, 90, 110, 125, 140, 160, 180, 200, 225	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
Welding neck support*)	■	■	■	■	■
Automatic, "jumping" heating element*)	■	-	■	■	■
Included standard delivery:					
WeldControl EF hydraulic controller for a max. pressure of:	130 bar	130 bar	130 bar	130 bar	130 bar
Basic machine chassis	■	■	■	■	■
Facing tool with micro-switch	■	■	■	■	■
PTFE-coated heating element	■	■	■	■	■
Carrying rack	■	■	■	■	■
HÜRNER transport box for reducers and machine optional	■	■	■	■	-
HÜRNER aluminium reducers ¹⁾	-	-	■	■	■
HÜRNER steel reducers ¹⁾	-	-	-	-	-
Power supply	180 V - 280 V 40 - 70 Hz	180 V - 280 V 40 - 70 Hz	180 V - 280 V 40 - 70 Hz	180 V - 280 V 40 - 70 Hz	180 V - 280 V 40 - 70 Hz
Rated power (kW)	2,45	3,45	3,65	4,65	5,40
Overall weight with all components (kg)	76	97	119	178	211

¹⁾ Modified design: Screw-Fastened
*) Available as an option

Calling HÜRNER's WeldControl EF a true revolution of welding technologies is by no means an exaggeration: it is the first welding system in the world to allow both jointing two PE components using an ef-fitting for welding and a joint of two PE components by the butt-welding process, and it does so without trading in any of the well-known characteristics of HÜRNER systems: small and compact, adding the maximum possible suitability for construction sites.

This result of engineering excellence is achieved by incorporating the electrofusion control system in the hydraulics enclosure using a micro-controller layout HÜRNER has developed from scratch to this very end. Accordingly, the hydraulic and control unit works, on the one hand, as the HÜRNER WeldControl that users have come to appreciate for walking them semi-automatically through the butt-welding process, including all the bells and whistles, e.g., ISO-compliant recording etc. As an addition, simply connecting the welding cable makes the machine switch from butt welding to the electrofusion mode, EF. The machine practically turns itself into an electrofusion welder HST 300 Print + of the Generation 2.0, i.e., lets you connect the welding cable to the terminals of the EF fitting, read the fitting bar code with a scanner, and start the welding process. In this case, all HST 300 Print + 2.0 capabilities are available, such as automatic ISO-compliant recording and end-to-end process monitoring.

For the first time ever, the WeldControl EF thereby offers an efficient solution for users who are required to joint components into a pipeline with both established welding processes. They also benefit from a centralized control panel, the dimensions of which have been kept so handy that it can almost be considered a "normal" electrofusion welding box. This box offers the unheard-of advantage of a possible connection to a butt-welding machine chassis, thereby doubling as its hydraulic and control unit. No need any more for the installing company to bring both types of welding equipment to the construction site, and space on site or in the ditch, which is limited at any rate, gets used to the optimum.

More capabilities:

- Via the USB port data can be sent as an abstract or extended report in the PDF format to a USB stick or a label tag printer. Download in the DataWork format enables using HÜRNER's PC program DataWork for archiving and managing the welding data.
- The machine ships with the dedicated WeldControl EF control unit of ingress rating IP 54 for pressures of up to 130 bar or electrofusion fittings up to O.D. 355 mm.
- For electrofusion a welding cable 4 m long with 4.7 mm connection terminals is supplied for installation to the centralized WeldControl EF control panel, and 4.0 mm push-on adapters are included.
- For butt welding both the heating element and the facing tool are connected to the WeldControl EF hydraulics. No additional power distribution is needed! Component traceability data, pipe material, diameter, and wall thickness or SDR can be entered on a GT keypad with a highly user-friendly menu. All pressures and times relevant to

the jointing operation are computed pursuant to national standards and monitored by the WeldControl system and displayed on the screen for the welder's convenience.

- The 4th clamp of the machine chassis can be easily removed by loosening 3 bolts, for welding operations at locations where positioning the machine is a challenge and for joints with tees or other fitting elements. This turns the machine into a fully functional "short" chassis with only three clamps.
- The machine chassis is set on a specifically developed support frame exhibiting a warp resistance that manages even the most extreme pipe parameters. Operators can be sure that the machine chassis does not tilt or twist even when very long lengths of pipe with very thick walls are processed.
- Large, knurled turning knobs mean easy handling for the operator who opens or closes the clamps of the machines sized up to O.D. 315. No tools are needed for this.

- The facing tool with integrated safety micro-switch is driven by a high-quality power drive engaged by a transmission chain. The precision heating element ships with a very rugged anti-stick coating.
- A carrying rack is provided for the heating element and the facing tool, to store them with no worries about the heat.
- Maximum protection of the stowed-away machine is provided (up to O.D. 315) by an optional high-quality transport box that has been specifically designed for the entire machine assembly, with drawer-style storage compartments for the reducer inserts.
- For all machines a welding neck support is of course available, too.

¹⁾ Under development

HÜRNER WeldControl EF characteristics

Automatic data logging	10,000 reports
Data input	WeldControl mode: All inputs of data, such as pipe parameters, wall thickness/SDR and traceability data, with novel GT keypad Electrofusion mode EF: Bar code scanner, manual input of numeric fitting code or welding voltage and time, Fusamatic (optional)
Welding monitoring system	WeldControl mode: Welding pressures, welding times, ambient temperature, memory control, operating temperature, heating element temperature, service schedule management Electrofusion mode EF: Welding voltage, resistance, welding current, established contact, short-circuit, ambient temperature, input frequency and voltage, memory control, operating temperature, service schedule management
Standard-compliant ISO 12176 traceability	Commission number with 32 alphanumeric characters, ISO-compliant welder ID code, HÜRNER welder ID code, 1 st additional (user-defined) data with 20 alphanumeric characters, 2 nd additional (user-defined) data with 15 alphanumeric characters, ISO-compliant traceability: fitting code, 1 st and 2 nd pipe codes, pipe length, weather conditions, joint number, installing company, inventory number
Welding standard	DVS, WIS, SEDIGAS, UNI, and others upon request
Data output	USB A port for data transfer as short abstract or extended report in the PDF format to a USB stick or a label tag printer, incl. tag printer menu; transfer also possible in the HÜRNER DataWork format, now with powerful download menu with date range selection, commission number selection, and download of all reports in memory
Display screen	LED-lit screen of 4 lines 20 alphanumeric characters each, character height 8 mm, welding process diagram with control LEDs
Approvals, quality, ingress rating	CE, ISO 9001 : 2008, IP 54 (IP 64 optional), WEEE Reg. No. DE 74849106, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, and others upon request
Miscellaneous	Unique welding system as a "two-in-one" integrating electrofusion and butt welding; a hydraulic unit for butt welding also featuring an electrofusion control system, but still offering compact dimensions and being a full match for use on construction sites
System self-monitoring	System check, computerized maintenance management, including recording
Hydraulic unit	Only one external power supply needed! Power to all electronic components is supplied from the hydraulic unit; automatic heating element temperature control pursuant to national standards; hydraulic unit in encased, rugged steel enclosure with a weight of as little as 29.5 kg; max. pressure, up to O.D. 355 mm, 130 bar
Manufacturer warranty	12 months

All components are covered by the HÜRNER warranty.



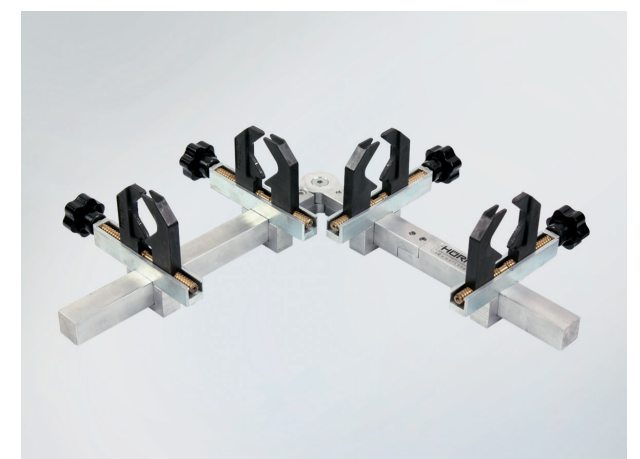
Transport box



Welding neck support



Pipe scrapers size 1, 2



Component positioner