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10.2025

CNC ECO 2.0 500-630



HÜRNER WhiteLine  
CNC ECO 2.0

EN

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Example picture

Stand-alone in Butt-Welding

| Technical Specs                                        | 160 mm                                     | 200 mm                                       | 250 mm                                                       | 315 mm                                                      | 355 mm                                                              | 500 mm                                          | 630 mm                              | 800 mm                | 1000 mm               | 1200 mm                        |
|--------------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-------------------------------------|-----------------------|-----------------------|--------------------------------|
| P/N 200-701-...                                        | -162                                       | -200                                         | -250                                                         | -315                                                        | -355                                                                | -500                                            | -630                                | -800                  | -100                  | -120                           |
| Welding range, O.D. (mm)                               | 40–160                                     | 63–200                                       | (63)<br>75–250                                               | 90–315                                                      | 90–355                                                              | 200–500                                         | 315–630                             | 500–800               | 630–1000              | 630–1200                       |
| Power Supply                                           | 230 V<br>50 Hz                             | 230 V<br>50 Hz                               | 230 V<br>50 Hz                                               | 230 V<br>50 Hz                                              | 230 V<br>50 Hz                                                      | 400 V<br>50 Hz, 3 P                             | 400 V<br>50 Hz, 3 P                 | 400 V<br>50 Hz, 3 P   | 400 V<br>50 Hz, 3 P   | 400 V<br>50 Hz, 3 P            |
| Rated power (kW)                                       | 2.85                                       | 3.65                                         | 3.85                                                         | 4.85                                                        | 5.60                                                                | 6.95                                            | 11.65                               | 18.2                  | 23.61                 | 21.2                           |
| Overall weight with all components (kg)                | 80                                         | 91                                           | 125                                                          | 179                                                         | 216                                                                 | 372                                             | 581                                 | 1233                  | 1397                  | 1775                           |
| Reducer inserts                                        | 40, 50,<br>63, 75,<br>90, 110,<br>125, 140 | 63, 75,<br>90, 110,<br>125, 140,<br>160, 180 | (63)*, 75,<br>90, 110,<br>125, 140,<br>160, 180,<br>200, 225 | 90, 110,<br>125, 140,<br>160, 180,<br>200, 225,<br>250, 280 | 90, 110,<br>125, 140,<br>160, 180,<br>200, 225,<br>250, 280,<br>315 | 200, 225,<br>250, 280,<br>315, 355,<br>400, 450 | 315 , 355,<br>400, 450,<br>500, 560 | 500, 560,<br>630, 710 | 630, 710,<br>800, 900 | 630, 710,<br>800, 900,<br>1000 |
| Welding neck support*)                                 | ■                                          | ■                                            | ■                                                            | ■                                                           | ■                                                                   | ■                                               | ■                                   | ■                     | ■                     | ■                              |
| Automatic, “jumping” heating element*)                 | ■                                          | –                                            | ■                                                            | ■                                                           | ■                                                                   | ■                                               | ■                                   | –                     | –                     | –                              |
| Included standard delivery:                            |                                            |                                              |                                                              |                                                             |                                                                     |                                                 |                                     |                       |                       |                                |
| CNC ECO hydraulic controller                           | ■                                          | ■                                            | ■                                                            | ■                                                           | ■                                                                   | ■                                               | ■                                   | ■                     | ■                     | ■                              |
| 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 <sup>1)</sup>                | ■*)                                        | –                                            | ■                                                            | ■                                                           | ■                                                                   | ■                                               | ■                                   | ■                     | ■                     | ■                              |
| HÜRNER steel reducers <sup>1)</sup>                    | ■                                          | ■                                            | –                                                            | –                                                           | –                                                                   | –                                               | –                                   | –                     | –                     | –                              |

<sup>1)</sup> Modified design: Screw-Fastened  
\*) Available as an option

The **HÜRNER** CNC ECO 2.0 is a high-quality and durable, next-generation CN-controlled plastic pipe butt-welding machine that has been developed in compliance, as applicable, with the machinery directive 2006/42/EC as amended. The design of the machine is such that with 12 basic machine chassis models, pipes from O.D. 40 through 1200 mm can be joined.

The welding machines ship with a fully encased CNC hydraulic and control box of ingress protection IP 54 managing pressures up to 220 bar. Both the anti-stick-coated heating element and the facing tool are hooked up along with the machine chassis on the hydraulic and control box. No additional power distribution is needed.

Furthermore, all **HÜRNER** CNC ECO machines of the next generation allow an optional upgrade with a hardware-based input

voltage monitor, inclusive of the associated voltage recording capabilities.

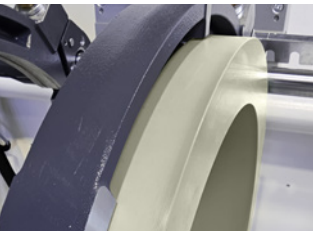
Heating element temperature and pressure control throughout the welding process is implemented as provided for by the applicable standard (DVS, UNI, WIS, NEN, etc.). Of course, all welding-related parameters that matter for a high-quality and reproducible joint are monitored for the full duration of the process and saved to the internal memory with a capacity of 10,000 reports.

It is absolutely unique and a first in butt-welding technology that user identification and access control does not rely on bar codes and scanner with these machines, as in the past, but makes the data available to the hydraulic and control box by the totally error-proof and extremely user-friendly RFID technology.

Of course, the tried and tested input device, handheld scanner, continue to be available as options. All **HÜRNER** CNC ECO machines also feature a USB interface port and Bluetooth connectivity for download of the welding data to a USB stick as a short abstract or an extended report in the PDF format or for archiving them in the **HÜRNER** DataWork format. Add to all the above the new **HÜRNER** WeldTrace app’s QR code scanning capability, and comprehensive end-to-end tracing of all project and welding information is a given even years after the fact.

In their CNC ECO + 2.0 model version, all machines additionally feature the HDC – **HÜRNER** Distance Control – sensing system for accurate verification of proper welding and welding process preparation.

All components are covered by the **HÜRNER** warranty.



Industry version

Optionally, the machine chassis (250, 315, 355, 500, 630) are also available in an industry set-up with a modified 3rd clamp for clamping fittings and flanges with a short connecting stub.<sup>3)</sup>



Movement Pushbutton

The **HÜRNER** movement pushbutton fitted to the basic machine chassis allows moving the machine carriage when the welder stands next to the chassis. This enables convenient welding without constant back-and-forth between the hydraulic and control box and the machine chassis.



Tag printer and label tags

Immediate quality labeling of every welded joint is possible with the optional dedicated tag printer that delivers an abrasion-proof plastic sticker which can be used as a label on the fitting or joint



Front panel

The standard version of the machine ships with a next-generation, high-resolution, temperature range-extended character display. The novel GT keyboard enables convenient input of both required component parameters and traceability data.

HÜRNER CNC ECO 2.0 characteristics

|                               |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Automatic data logging        | 10,000 reports                                                                                                                                                                                                                                                                                                                                     |
| Data input                    | RFID transponder, manually, bar code scanner <sup>2)</sup>                                                                                                                                                                                                                                                                                         |
| System self-monitoring        | Hardware-base input voltage monitor <sup>2)</sup> incl. data recording, system check, computerized maintenance management, including recording                                                                                                                                                                                                     |
| Welding monitoring system     | Welding pressures, welding times, ambient temperature, input voltage, memory control, motor operating temperature, heating element temperature, service schedule management, welding road/length                                                                                                                                                   |
| Traceability                  | Commission number 32 alphanumeric characters, RFID-fed ISO welder ID code, additional data 20 and 15 alphanumeric characters, ISO pipe codes, fitting data, pipe length, weather conditions, installing company, joint number, inventory number, display of maintaining company                                                                    |
| Welding standard              | DVS, WIS, SEDIGAS, UNI, UNI, NEN, 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, CNC ECO 2.0 now with powerful download menu with date range selection, commission number selection, and download of all reports in memory |
| Languages                     | DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, and others upon request                                                                                                                                                                                                                                                                |
| Display elements              | Robust, high-resolution and temperature range-extended display screen with font size 8 mm, welding diagram with LED indicators                                                                                                                                                                                                                     |
| Miscellaneous                 | Keyboard switching, menu-controlled report review incl. search capability, ViewWeld feature, interactive carriage mover pushbutton on machine chassis, special memory backup feature                                                                                                                                                               |
| Standards, approvals, quality | Machinery directive 2006/42/EC (as applicable), DVS 2207, WEEE Reg. No. DE74849106, ISO 9001:2015, RoHS-compliant                                                                                                                                                                                                                                  |
| Manufacturer warranty         | 12 months                                                                                                                                                                                                                                                                                                                                          |

<sup>2)</sup> optional  
<sup>3)</sup> Retrofit kit for converting existing systems to industry version available upon request!