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10.2025

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Model Sample

## HÜRNER WhiteLine HWT 500 CS

**KVG**  
Kunststoff-Vertriebs KG

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EN

## HÜRNER HWT 500 CS characteristics

P/N	409-000-...
HWT 500 CS w/ narrow aluminum master clamps, metric	-000
HWT 500 CS w/ narrow aluminum master clamps, IPS	-001
<b>Technical specs</b>	
Input voltage	3 ph., PE, 400 V AC
Frequency	50/60 Hz
Overall rated power	13,6 kW
Heating element rated power	8 kW
Facing tool rated power	2,2 kW
Servomotor rated power	3,4 kW
Changeover time	2 Sec.
Compressed air	min. 6 bar   87 PSI
Dimensions, weights	
Dimensions (W x D x H)	approx. 1500 x 2500 x 1700 mm
Weight inclusive of master clamps	approx. 1490 kg
Approvals, quality, ingress protection	CE, ISO 9001:2015, WEEE Reg. No. DE 74849106, RoHS-compliant. The air quality must be at least equal to the "general factory air", (2:4:2) classified according to ISO 8573-1:2010
Accessories	User's manual, operator ID card, tools

<b>Operating characteristics</b>	
Heating element temperature range	max. 290 °C   max. 555 °F
Force rating	max. 20,000 N
Ambient temperature (operation)	5 °C thru +40 °C   41 °F thru 104 °F
Ambient temperature (storage)	-10 °C thru +70 °C   15 °F thru 160 °F
Operating range w/ straight pipe, segments	160–500 mm 6"–20" IPS
Operating range w/ Tees, crosspieces, Ys <sup>1)</sup>	160–500 mm 6"–20" IPS
<b>Optional components</b>	
Label tag printer	P/N 200-230-326
Tray for label tag printer	P/N 404-810-103
Replacement blade	P/N 200-600-099
Handheld scanner (QR-Code)	P/N 216-030-267
Welding neck support, metric	P/N 409-400-000
Welding neck support, IPS	P/N 409-410-000
Additional servo-operated Cylinder	P/N 409-266-000
Preheating-unit	P/N 409-153-000

Also available as an option

Clamps for Tees / crosspieces<sup>2)</sup>Clamps for Ys (60 deg.)<sup>2)</sup>

Welding neck support (two-piece)



Preheating-unit

**HÜRNER HWT 500 CS servo-operated workshop system for manufacturing PE, PE 100 RC, PP, and PVC-U, PVC-C pipes, segmented bends, and fittings, fitted with narrow aluminum master clamps.**

The design of the machine is such that pipes and segments up to O.D. 500 mm / 20" with any SDR ratio up to SDR 9 can be processed.

The system was developed under the machinery directive 2006/42/EC as amended and is set on a welded and bolted, totally heavy-duty support frame resistant to warping by design. Both the movable carriage of the system and the console carrying the heating element and the facing tool travel on precision-engineered, heavy load-bearing trapeze-shaped guides constructed with smoothly travelling runner blocks.

A pneumatic cylinder will remove the heating element from in-between the components in no time, enabling change-over in as short as 2 seconds. The facing tool assembly, too, is inserted and removed automatically.

All components are covered by the 12-month HÜRNER warranty.



Welding Cockpit



Horizontal adjustability of both carriages



Vertical adjustability



Height adjustable pipe support



Tag printer and label tags



SerNo: 13441000  
21-09-22 12:41  
PE100/0160/11.0/14.5  
WELDER 01.07.043 AG 234  
Schweissung OK

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.

**HÜRNER HWT 500 CS control system specs**

Automatic data logging	10,000 welding operations
Data input	Touchscreen, RFID reader, scanner (optionally)
System self-monitoring	System check, Computerized maintenance management including logging
Welding monitoring system	Welding forces, welding times, ambient temperature, memory control, heating element temperature
Standard-compliant ISO 12176 traceability	Commission number with 32 alphanumeric characters, ISO-compliant welder ID code, additional (user-defined) data alphanumeric characters, ISO-compliant pipe parameters, fitting parameters, pipe length, installing company, joint number, inventory number, display of maintaining company; supported welding standards DVS, WIS, SEDIGAS, UNI, NEN, others upon request
Data download with print menu	USB port (USB A) for data transfer as PDF abstract or extended report to USB stick or (optional) label tag printer, incl. tag printer menu; transfer also possible in the HÜRNER DataWork Professional database format
Working languages	DE, EN, FR, NL, IT, others upon request

A unique feature in the field of butt welding that this system version offers is the user access management using RFID technology for foolproof and extremely convenient input of the data into the system, rather than the bar code and scanning pen that have been common.

Also a revolution in workshop machines is the possibility of preheating by means of a preheating cylinder.

As with all HÜRNER CNC systems, a USB interface port is also provided for downloading the welding data to a USB stick as a PDF abstract or extended report or for archiving them in the HÜRNER DataWork Professional format. Combining this to HÜRNER WeldTrace app, which has QR code scanning from label tags implemented, tracing back any and all welding and project data flawlessly is guaranteed even years after the work was completed. The welding data can also be transferred via the in-house LAN / Wi-Fi network to a printer or to the DataWork database software.

**Technical changes reserved.**<sup>1)</sup> requires optional clamps for Tees / crosspieces and/or clamps for Ys (60 deg.)<sup>2)</sup> under construction