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our product range is also available on-line at  
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10.2025

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Model Sample

HÜRNER WhiteLine  
HWT 400 CS-S

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EN

HÜRNER HWT 400 CS–S characteristics

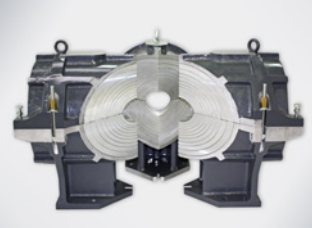
P/N	406-000-...
HWT 400 CS–S w/ narrow aluminum clamping jaws	-017
HWT 400 CS–S w/ narrow aluminum clamping jaws (IPS)	-015
Technical specs	
Input voltage	3 ph., PE, 400 V AC
Frequency	50/60 Hz
Overall rated power	9 kW
Heating element rated power	5 kW
Facing tool rated power	1.85 kW
Servomotor rated power	1.7 kW
Changeover time	< 2 Sec.
Compressed air	min. 6 bar / 87 PSI, max. 14 bar (2:4:2)
Dimensions, weights	
Dimensions (W × D × H)	approx. 1100 × 1500 × 1600 mm
Weight inclusive of clamping jaws	570 kg
Approvals, quality, ingress protection	CE, ISO 9001:2015, IP54 (IP64 optionally), 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 DE, EN, FR, operator ID card, tools

Operating characteristics		
Heating element temperature range	max. 290 °C   max. 555 °F	
Force rating	max. 9500 N	
Ambient temperature (operation)	±0 °C thru +60 °C   32 °F thru 140 °F	
Ambient temperature (storage)	–10 °C thru +70 °C   15 °F thru 160 °F	
Operating range w/ straight pipe, segments	90–400 mm 3” – 16” IPS	
Operating range w/ Tees, crosspieces, Ys <sup>1)</sup>	90–315 mm 3” – 12” IPS	
Branch size	90–250 mm 3” – 8” IPS, other sizes on request	
Main pipe size	140–400 mm 5” – 16” IPS, other sizes on request	
Optional components		
Label tag printer	P/N:	200-230-326
Tray for label tag printer	P/N:	404-810-103
Replacement blade	P/N:	200-600-035
Handheld scanner (QR-Code)	P/N:	216-030-267
Welding neck support	P/N:	406-414-000
Angle Support Bracket	P/N:	406-155-000
Additional servo-operated Cylinder	P/N:	510-266-000
4 heavy-duty rollers for easy moving of the machine	P/N:	406-820-011

Also available as an option



Cast-aluminum clamping jaws



Clamps for Tees / crosspieces



Clamps for Ys (60 deg.)



Welding neck support (two-piece)

<sup>1)</sup> requires optional clamps for Tees / crosspieces and/or clamps for Ys (60 deg.)

**HÜRNER HWT 400 CS-S servo-driven workshop technology system for manufacturing PE, PE 100 RC, PP and PVC-U, PVC-C pipes, segmented bends, and fittings, fitted with narrow aluminum clamping jaws.**

**The machine is equipped with additional clamping jaws for saddle fusion. A machine software specifically adapted for saddling allows one-sided preheating.**

The design of the machine is such that pipes, segments of up to O.D. 16” with any SDR ratio 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. Inserting the PTFE-coated heating element manually is as convenient as it is effortless. A pneumatic cylinder will remove it from in-between the

components in no time, enabling change-over in as short as < 2 seconds.

The swiveling clamping jaws on both sides can be rotated by up to 2 × 22.5 deg. and also feature horizontal adjustability, to allow for compensating any misalignments. The facing tool has a rugged chain drive mechanism and can be inserted and then locked in place between the component butts easy as ABC thanks to a gas-pressure cylinder.

Heating element temperature control and the application of the welding force precision-controlled by a servomotor are performed in compliance with the standard applicable to the operation (DVS, UNI, WIS, NEN, etc.). All welding parameters critical for a high-quality and reproducible welded joint, it goes without saying, are monitored for the entire welding process and saved to one of the 10,000 welding reports the system memory holds.

In its standard delivery, the machine features a high-resolution color display touchscreen. This device allows entering and displaying both all required component parameters and the

needed traceability information.

Additionally, the HWT 400 CS–S can be used both as an automated CNC system and, with the Manual Welding Cockpit, fully manually, thereby providing the utmost flexibility required in workshop applications.

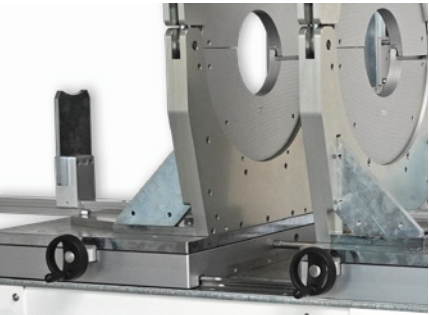
A unique feature in the field of butt welding that this system version offers is the user access management using RFID technology for foolproof and extremely convenient input of the data into the system, rather than the bar code and scanning pen that have been common. A scanner, too, the common input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

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 report or for archiving them in the **HÜRNER** DataWork Professional format. Combining this to **HÜRNER**’s 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.

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



Welding Cockpit



Horizontal adjustability of both carriages



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.

HÜRNER HWT 400 CS–S control system specs

Automatic data logging	10,000 welding operations
Data input	Touchscreen, RFID reader, scanner (optionally)
System self-monitoring	Hardware-base input voltage monitor including logging, 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 RFID welder ID code, additional (user-defined) alphanumeric data, ISO-compliant pipe parameters, fitting parameters, pipe length, installing company, joint number, inventory number, display of maintaining company, 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 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