

**THERMAL
DYNAMICS**

iHC XT

Thermal Dynamics[®]
**HEIGHT CONTROL
MADE EASY**

The Height Control that Knows Your Plasma Processes

With the Intelligent Height Control iHC XT, simply confirm the system has the material, thickness and amps you are using to cut your next work. The intelligent iHC XT takes care of the rest – no more incorrect settings or operator errors.



We Bring Intelligence to the Table.™

Thermal Dynamics® introduces

INTELLIGENT HEIGHT CONTROL

Process Database Built In.

What could be easier? Simply choose the material, thickness and amps you are using to cut your next work – the intelligent iHC XT takes care of the rest. All the torch height related parameters are set automatically. The iHC XT will even give proper kerf and speed value settings for the CNC. This minimizes the work load and potential operator errors, without sacrificing the advanced features of the height control. All ideal settings for Ignition Height, Pierce Height & Time, Cut Height, Arc Voltage and other key parameters are preset.



Intuitive User Interface

- Rotate the dial to pick up the right process – or when cutting, to fine-tune the cut height!

Precise Arc Voltage Monitoring for Ultimate Cut Quality

- 50 - 300V, settable in 0.1V increments, controlled by 0.02V measuring resolution.

Voltage Sampling to Adapt for Consumable Wear

- Keeps the nozzle distance from plate correct throughout the entire life-time of the electrode.

Two Ways to Sense the Plate

- Ohmic Contact
- Collision sense (adjustable sensitivity) virtually eliminates plate sensing problems caused by dirty nozzle/plate, preventing electric contact. If Ohmic contact does not work, the sensors on the iHolder take care of sensing the plate.

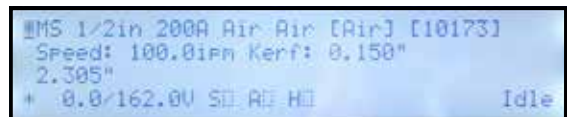
Built-in Laser Pointer for easier torch positioning.

Programmable Cutting Parameters Include:

- Arc voltage
- Cut height
- Height to slow down for plate sensing
- Short distance transfer height and time-in-place before returning back to position
- Ignition height
- Pierce height

Two Lifter Versions, 100 mm / 200 mm Stroke

- Lifter dimensions (W x D x L) 127 x 100 x 400 or 480 mm.
- 100 mm lifter weight 6.0 kg; 200 mm lifter weight 7.0 kg. The collision sensor weighs an additional 1.0 kg.



Sample iHC XT screen captures



iHC XT Specifications

Maximum Speed	6000 mm/min @ 1200 rpm
Voltage Control Accuracy	± 1V
Arc Voltage Range	50-300V
External Power Supply Requirement	24VDC/5A (±10%)
Size	400 mm W x 70 mm H x 290 mm D
Weight	3 kg
Warranty	1 year

The iHC XT comes complete with height control, lifter, all cables to connect to CNC and power supply (including ohmic sensing) & voltage supply with cable for 100 - 240V

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