



ULTRA-CUT XT Series

AUTO-CUT XT Series





CUTTING EQUIPMENT PRODUCT PORTFOLIO

We Bring Intelligence to the Table."



AT THE FOREFRONT OF PLASMA CUTTING INNOVATION.

Thermal Dynamics[®] is where professionals look when cutting mild steel and non-ferrous materials for cut quality, ease of use, cut speed and overall productivity. Our plasma systems have the solutions you need:

- High Precision Cutting
- Integrated Controls
- Robotics & Beveling
- Air Plasma
- Upgrades & Retrofits

Whatever your plasma cutting needs, look to the Thermal Dynamics range which offers intelligent solutions to improve productivity and ensure that every cut is the right cut with our state-of-the-art plasma cutting technology and high quality consumables, backed up by exceptional service and support.

The various components in a cutting operation must work together seamlessly to operate in real-time harmony. That takes a lot of coordination – and a Thermal Dynamics automated plasma system offers the precise control needed to get the best results, by complete integration with either our own iCNC® XT, or with virtually any CNC system on the market today.

With a Thermal Dynamics integrated automated plasma system, you bring the industry's most intelligent approach to the table.



The Thermal Dynamics A Series is a range of 4 compact air-plasma cutting systems that take advantage of the reliability of the Cutmaster platform and proven 1Torch technology.

Thermal Dynamics®

NEW A40i/A60i Series systems

- Easy access to all connection
- Smallest foot print and weight in its class. Ideal to install on the gantry
- Proven torch SL100SV torch design
- Marking capabilities
- Full featured CNC interface

With all the advantages of 1Torch and proven Thermal Dynamic's reliability, the automated new A-Series delivers the best in productivity, precision and performance.



A40i



A60i



AUTOMATED PLASMA CUTTING SYSTEMS

Thermal Dynamics®

A-SERIES SYSTEMS

The A-Series is the intelligent solution for economical and flexible plasma cutting with proven reliability and quality.

- Best In Class Cutting Performance
- Easy To Use And Set-Up
- Superior Cut Quality Up To 120 Amps
- Lightweight And Compact Design
- Durable In Even The Toughest Environments

The Automated Plasma Cutting Systems are based on the proven Thermal Dynamics® platform. The A-Series offers standard features to meet the needs of many automated applications.



Cutmaster A80



Cutmaster A120



Superior Cutting Performance

SureLok[®] Electrode Technology

The innovative, patented, self-locking electrode mechanism eliminates the need for an installation tool and ensures

precise electrode and tip alignment. Both the electrode and tip are



stationary which results in a highly defined arc and precise cuts. SureLok alignment also means longer tip and electrode life and reduced operating costs.

Total Gas Management[™]

The SL100[®] SV 1Torch[®] eliminates the need for a separate plasma gas distributor. Each tip includes plasma gas ports

uniquely tuned to optimize cutting performance at its rated current. Select from 20, 30, 40, 60, 80, 100 or 120 Amp tips to optimize your cutting. The



result is Total Gas Management. Precision gas control, longer consumable parts life and better cut performance.

Superior Quality at All Amperages

Whether you are fabricating thick plate or cutting ornamental shapes, the Automation Series is perfect for the job.

At 120 Amp output, the A120 produces the BEST CUT on 1/2" (12 mm) mild steel plate at 70 IPM (1.86 m/min). For those cutting intricate shapes, select low amperage tips for kerf widths less than 0.045" (1.14 mm) wide.

Whether you cut plate, HVAC duct work or ornamental shapes, the A-Series is right for you.

Start Cartridge

High Frequency has been completely eliminated from the plasma system. A patented component called the "Start

Cartridge" sits between the tip and electrode. The Start Cartridge is in contact with the tip while the torch is inactive. When a start signal is given, air forces the cartridge to break contact with the tip and the pilot arc is started. This unique design allows the pilot arc



to start without moving either the tip or electrode, resulting in better parts life, cut performance and reliability. The start cartridge is the only moving part in the SL100SV torch.

Choice of Tip Shielding

Choose from two consumable styles:

- Exposed Tip for cutting thin sheet at low power & narrow kerf.
- Shielded Tip for heavier plate piercing and cutting.

Note: Use the Ohmic Clip with the Shielded Tip

design if ohmic plate sensing is required



Shielded Tip





Specifications

	A40i	A40i A60i		A120	
Rated Output	40 Amps	60 Amps	80 Amps	120 Amps	
Output Range	10 - 40 A	10 - 60 A	30 - 80 Amps, 100 Amps Max., Adjustable	30 - 120 Amps, 120 Amps Max., Adjustable	
Production Piercing and Cutting Capacity	6 mm	10 mm	12 mm	15 mm	
Maximum Piercing and Cutting Capacity	12 mm	15 mm	20 mm	20 mm	
Maximum Edge Start	25 mm	25 mm	30 mm	40 mm	
Input Volts	380/400V, 3 ph, 50/60 Hz	380/400V, 3 ph, 50/60 Hz	380/400V, 3 ph, 50/60 Hz	380/400V, 3 ph, 50/60 Hz	
Input Amps @ Max Output	7.7 (380V, 3 ph) 7.4 (400V, 3 ph)	12.9 (380V, 3 ph) 12.3 (400V, 3 ph)	29 (380V, 3 ph) 28 (400V, 3 ph)	35 (380V, 3 ph) 36 (400V, 3 ph)	
Kilowatt Output	4.8 kW	7.9 kW	12 kW	15.4 kW	
Duty Cycle	80% @ 40 Amps 100% @ 30 Amps	80% @ 60 Amps 100% @ 50 Amps	80% @ 80 Amps 100% @ 70 Amps	80% @ 120 Amps 100% @ 100 Amps	
MAX OCV	300 VDC	300 VDC	260 VDC	260 VDC	
Gas Type	Air@ 5.2 bar @ 189 lpm Argon (Marking) @ 5.2 bar @ 189 lpm	Air@ 5.2 bar @ 189 lpm Argon (Marking) @ 5.2 bar @ 189 lpm	Air @ 5.2 bar) @ 189 lpm)	Air @ 5.5 bar @ 189 lpm	
Pilot	Start Cartridge	Start Cartridge	Start Cartridge	Start Cartridge	
Weight	15.9kg - Unit, Power Cable, (Torch and Leads)	15.9kg - Unit, Power Cable, (Torch and Leads)	28.6kg - Unit, Power Cable, (Torch and Leads)	28.6kg - Unit, Power Cable, (Torch and Leads)	
Dimensions	H 359 mm x W 199 mm x L 536 mm	H 359 mm x W 199 mm x L 536 mm	H 343 mm x W 248 mm x L 660 mm	H 343 mm x W 248 mm x L 660 mm	
Work Cable	6.1m	6.1 m	6.1 m	6.1 m	
Control	CNC rear panel connector: Start/Stop, OK to Move, Divided arc voltage, Plate contact.	CNC rear panel connector: Start/Stop, OK to Move, Divided arc voltage, Plate contact.	CNC rear panel connector: Start/Stop OK to Move, and Divided arc voltage	CNC rear panel connector: Start/Stop OK to Move, and Divided arc voltage	
Input Power Cable	2 m without plug (400V)	2 m without plug (400V)	2 m without plug (400V)	2 m without plug (400V)	
Certifications	IP-23C, CSA, NTRL/C, CE, CCC	IP-23C, CSA, NTRL/C, CE, CCC	IP-23C, CSA, NTRL/C, CE, CCC	IP-23C, CSA, NTRL/C, CE, CCC	
Torch Configuration					
Torch	SL100 [®] SV w/ATC [®] , 180° Automation				
SL100SV - 7.6m Leads	1-5634-3	1-6634-3	1-1334-3	1-1734-3	
SL100SV - 10.6m Leads	1-5636-3	1-6636-3	1-1336-3	1-1736-3	
SL100SV - 15.2m Leads	1-5635-3 1-6635-3		1-1335-3	1-1735-3	

*Systems include: power supply, automation torch with 35 mm diameter non-metallic mounting tube / 32 pitch rack (detachable), pinch block assembly, CNC interface cable, spare parts kit, input power cable (selected systems), work cable, and clamp.

(subject to change without notice)

Cut Speed Charts

Cut Speed Chart - Mild Steel							
Amps	Plasma/Shield	lasma/Shield Thickness Spe [mm] mm/					
40	Air/Air	1	3990				
		2	2920				
		3	1810				
		5	1345				
60	Air/Air	4	3650				
		6	2145				
		10	1180				
		12	795				
80	Air/Air	6	2745				
		10	1060				
		12	1025				
		15	610				
100	Air/Air	10	1790				
		12	1310				
		20	490				
120	Air/Air	10	2100				
		12	1860				
		15	1320				
		20	720				

Cut S	peed Chart	- Stainless	Steel
Amps	Plasma/Shield	Thickness [mm]	Speed mm/min
40	Air/Air	2	1140
		3	980
		5	715
60	Air/Air	4	2865
		6	1790
		10	725
		12	580
80	Air/Air	6	2765
		10	1070
		12	765
100	Air/Air	10	1575
		12	1255
		15	685
120	Air/Air	10	2390
		12	1750
		15	1160

Cut Speed Chart - Aluminium									
Amps	Plasma/Shield	Thickness [mm]	Speed mm/min						
40	Air/Air	2	3500						
		3	2350						
		5	1740						
60	Air/Air	4	5230						
		6	2640						
		10	1085						
		12	845						
80	Air/Air	6	3190						
		10	1330						
		12	1060						
		15	745						
100	Air/Air	10	1575						
		12	1255						
		20	470						
120	Air/Air	10	2660						
		12	2100						
		15	1445						

Note: The cutting speed chart includes preliminary data and is subject to change without notice. Take care in comparison. The speeds noted above are best cut speeds. Often, competitors show maximum cutting speeds. Although much higher speeds can be achieved, edge quality and bevel angle may be compromised. The capabilities shown in this table were obtained by using new consumables, correct gas and current settings, accurate torch height control and with the torch perpendicular to the workpiece. Please contact Thermal Dynamics for more information.



AUTOMATED PLASMA CUTTING SYSTEMS

Thermal Dynamics®

AUTO-CUT[®] XT Systems

The new Auto-Cut XT systems deliver the next step in flexibility and reliability in heavy plate cutting applications.

- MaximumLife[®] Parts to Lower Operating Costs
- Increased Productivity for Greater Profits
- Water Mist Secondary (WMS[®]) for Low Cost, High Quality Cutting on Non-Ferrous Metals

Auto-Cut 200 XT & 300 XT systems deliver premium cut performance on both mild steel and non-ferrous metals. These power supplies are designed for reliable, low cost operation. Features like the XT™301 consumable parts cartridge and the Machine Status Message Center make these models easy to operate.



Auto-Cut 200 XT



Auto-Cut 300 XT



Auto-Cut XT systems offer maximum productivity with reliability and ease

Productivity

- High cut speed to produce more parts per hour.
- With Water Mist Secondary (WMS) the cut speed can be up to 3 times faster than with similar cutting systems.
- Highest kW output in its class.
- Outstanding parts life.
- Reduced downtime during parts changes due to the SpeedLok cartridge design of the XT[™]301-Torch.

Reliability

• Exhaustive lab testing and field trials ensure on-going performance and reliability.

Technology

- Microprocessor controlled to produce the best cut quality.
- Precision torch design offers the best cut quality in its class.
- Higher cut speed than H35 with the use of N_2/H_2O on non-ferrous metals.

XT 301-Torch Technology

Thermal Dynamics XT Torch Technology delivers productivity and reliability.

- Keyless consumable cartridges for rapid process changes.
- Precision construction insuring accurate re-centering of consumable cartridge after parts change.
- Rapid engagement SpeedLock retaining collar.
- Liquid cooled consumable parts electrical connections.
- Spring loaded leak-less coolant tube design.
- Increased cooling of tip and electrode.
- Improved life through patented alignment control.

Ease of Use

- Fast and easy installation.
- Simple set-up and user-friendly gas console.
- SpeedLok[™] quick-change consumable design.
- Easy to identify and troubleshoot problems.







Specifications

	Auto-Cut 200	XT	Auto-Cut 300 XT		
Rated Output	200 Amps		300 Amps		
Output Range	5 - 200 A		5 - 300 A		
Production Piercing and Cutting Capacity	Mild Steel:25 mmStainless Steel:25 mmAluminium:25 mm		Mild Steel: Stainless Steel: Aluminium:	35 mm 35 mm 35 mm	
Maximum Piercing and Cutting Capacity	Mild Steel:35 mmStainless Steel:35 mmAluminium:35 mm		Mild Steel: Stainless Steel: Aluminium:	40 mm 40 mm 40 mm	
Maximum Edge Start	Mild Steel:50 mmStainless Steel:50 mmAluminium:50 mm		Mild Steel: Stainless Steel: Aluminium:	70 mm 70 mm 70 mm	
Input Volts	400V, 3 ph, 50/60 Hz		400V, 3 ph, 50/60 Hz		
Input Amps @ Max Output	60 A @ 400 V		93 A @ 400 V		
Duty Cycle	100% @ 200 Amps (40 KW)		100% @ 300 Amps (60 KW)		
MAX OCV	425 VDC		425 VDC		
Plasma Gas	Air, 02, Ar-H2, N2 @ 8.3 bar		Air, 02, Ar-H2, N2 @ 8.3 bar		
Shield Gas	Air, N2 @ 8.3 bar		Air, N2 @ 8.3 bar		
Water Mist Secondary	H ₂ 0 @ 0.6 l/min		H ₂ 0 @ 0.6 I/min		
Power Supply Weight	215 kg		268 kg		
Dimensions (H x W x D)	1219 mm x 698 mm x 1031 m	m	1371 mm x 698 mm x 1031 mm		
Certifications	CSA, CE, CCC		CSA, CE, CCC		

(subject to change without notice)

Cut Speed Charts

	Cut Speed Cha	Cut S	peed Chart	- Stainless	Cut Speed Chart - Aluminium						
Am	ps Plasma/Shield	Thickness [mm]	Speed mm/min	Amps	Plasma/Shield	Thickness [mm]	Speed mm/min	Amps	Plasma/Shield	Thickness [mm]	Speed mm/min
5	5 Air/Air	1	11500	55	Air/Air	1.5	9750	55	Air/Air	2	8790
		3	5460			4	2180			5	2360
		5	3180			5	1450	100	Air/Air	6	2650
10	0 Air/Air	6	4150	100	Air/Air	6	3020			12	1310
		12	1960			10	1580			20	890
		20	720			12	1260	100	N2/H20	6	1640
		25	520	100	N ₂ /H ₂ 0	6	1750			10	1210
20	0 Air/Air	10	3190			10	1210			12	970
		12	2710			12	970	200	N2/H20	20	1700
		20	1430	200	N ₂ /H ₂ 0	20	1450			25	1000
		25	920			25	1000	300	Air/Air	20	1600
30	0 Air/Air	12	2790	300	Air/Air	20	3020			25	1490
		20	1960			25	1750			35	1320
		25	1300			35	1060				
		35	920								
		38	510								
		50	220								
		70	100								

Note: The cutting speed chart includes preliminary data and is subject to change without notice. Take care in comparison. The speeds noted above are best cut speeds. Often, competitors show maximum cutting speeds. Although much higher speeds can be achieved, edge quality and bevel angle may be compromised. The capabilities shown in this table were obtained by using new consumables, correct gas and current settings, accurate torch height control and with the torch perpendicular to the workpiece. Please contact Thermal Dynamics for more information.



THE NEXT GENERATION OF HIGH PRECISION PLASMA CUTTING

Thermal Dynamics®

ULTRA-CUT[®] XT INTEGRATED SYSTEMS

Our next generation of high precision plasma cutters work the way you do – intelligently. Ultra-Cut XT systems give you the flexibility to increase cutting power and the assurance of superior quality, higher productivity and lower cutting costs. Ultra-Cut XT systems are available in 130A to 400A outputs for cutting plate up to 2" (50 mm) thick. And because its Modular Power Technology allows adding 100 Amp modules, the system grows with your business.

The new Ultra-Cut XT technology provides the next generation of higher productivity, increased flexibility and confidence in high precision plasma cutting. This performance on mild steel will meet or beat anyone and is superior on non-ferrous metals. With the ability to grow with your business, you can expand from one system to the next higher in minutes.





XT[™] Torch Technology – The New Standard for High Precision Plasma Cutting Systems



No Tools Required

Unlike other torches, no tools are required to change either the torch consumables or major components in



the torch head.

'Leakless' Torch Head Design

Coolant doesn't drip from the torch head when the consumables cartridge is removed from the torch head.

The design prevents air from entering the system and becoming trapped in the leads.

Precision Cuts on All Metals

The XT-Torch dual gas technology provides one of the highest arc density plasma streams in the industry for precision cuts on mild steel, stainless steel, aluminum and other non-ferrous materials, and Ar for marking with the DFC 3000. Choices for plasma gas include - Air, $_{2}^{N}$ O₂, Ar-H₂ and Ar for marking with the DFC 3000. Shield gas choices include - Air, $_{2}^{N}$, O₂, or Ar-H₂ and H₂O.

Relaxed Cutting Parameters

With the XT-Torch the operating window permits wide travel speed variance, which means you'll get great cuts more often with less wasted material and time.

- Less critical standoff height
- Wider 'Operating Window' for dross-free cutting

The Ultra-Cut XT is the latest addition to Thermal Dynamics integrated automated plasma system solution. The next generation Ultra-Cut XT combines high precision cutting with exceptional cost-performance benefits to deliver a more profitable plasma cutting operation.

Self-Centering Components

Consumable parts and torch body are precisely engineered to lock into place for absolute alignment and remain positioned cut after cut. Independently-aligned tip and electrode assures accurate re-centering of the consumable cartridge after each parts change. This guarantees best cut quality time and again.

Superior Warranty

Thermal Dynamics' XT-Torch warranty covers components and service for a full 1-year period.



Specifications

	Ultra-Cı	ut 130 XT	Ultra-Cut 200 XT		Ultra-Cut 300 XT		Ultra-Cut 400 XT	
Rated Output	130 Amps		200 Amps		300 Amps		400 Amps	
Output Range	5 - 130 A		5 - 200 A		5 - 300 A		5 - 400 A	
Production Piercing and Cutting Capacity	Mild Steel: Stainless Steel: Aluminium:	20 mm 15 mm 20 mm	Mild Steel: Stainless Steel: Aluminium:	25 mm 25 mm 20 mm	Mild Steel: Stainless Steel: Aluminium:	40 mm 25 mm 25 mm	Mild Steel: Stainless Steel: Aluminium:	50 mm 50 mm 50 mm
Maximum Piercing and Cutting Capacity	Mild Steel: Stainless Steel: Aluminium:	25 mm 20 mm 22 mm	Mild Steel: Stainless Steel: Aluminium:	40 mm 25 mm 25 mm	Mild Steel: Stainless Steel: Aluminium:	45 mm 30 mm 30 mm	Mild Steel: Stainless Steel: Aluminium:	50 mm 50 mm 60 mm
Maximum Edge Start	Mild Steel: Stainless Steel: Aluminium:	40 mm 40 mm 40 mm	Mild Steel: Stainless Steel: Aluminium:	65 mm 50 mm 50 mm	Mild Steel: Stainless Steel: Aluminium:	75 mm 50 mm 50 mm	Mild Steel: Stainless Steel: Aluminium:	90 mm 100 mm 90 mm
Input Volts	400V, 3 ph, 50/60 Hz		400V, 3 ph, 50/60 Hz		400V, 3 ph, 50/60 Hz		400V, 3 ph, 50/60 Hz	
Input Amps @ Max Output	41 A @ 400 V		62 A @ 400 V		93 A @ 400 V		137 A @ 400 V	
Duty Cycle	100% @ 100 Amps		100% @ 200 Amps		100% @ 300 Amps		100% @ 400 Amps	
MAX OCV	425 VDC		425 VDC		425 VDC		425 VDC	
Plasma Gas	Air, 02, Ar-H2, N2 @ 8.3 bar and Ar for marking		Air, 02, Ar-H2, N2 @ 8.3 bar and Ar for marking		Air, 02, Ar-H2, N2 @ 8.3 bar and Ar for marking		Air, 02, Ar-H2, N2 @ 8.3 bar and Ar for marking	
Shield Gas	Air, N2 @ 8.3 bar		Air, N2 @ 8.3 bar		Air, N2 @ 8.3 bar		Air, N2 @ 8.3 bar	
Water Mist Secondary	H ₂ 0 @ 0.6 l/min		H ₂ 0 @ 0.6 l/min		H ₂ 0 @ 0.6 I/min		H ₂ 0 @ 0.6 l/min	
Dimensions (H x W x D)	1219 mm x 698 mm	n x 1031 mm	1219 mm x 698 mm x 1031 mm		1219 mm x 698 mm x 1031 mm		1219 mm x 698 mm x 1031 mm	
Certifications	CSA, CE, CCC		CSA, CE, CCC		CSA, CE, CCC		CSA, CE, CCC	

(subject to change without notice)

Cut Speed Charts

Cut Speed Chart - Mild Steel				Cut Speed Chart - Stainless Steel				Cut Speed Chart - Aluminium			
Amps	Plasma/Shield	Thickness [mm]	Speed mm/min	Amps	Plasma/Shield	Thickness [mm]	Speed mm/min	Amps	Plasma/Shield	Thickness [mm]	Speed mm/min
30	0,/0,	3	1340	30	N_/H_0	1.5	5500	30	N_/H_0	1.5	3210
70	0,/Air	6	2710	50	N_/H_0	2	4310	70	N_/H_0	6	2060
100	0,/Air	6	3940		2 2	4	2410	100	N_/H_0	10	1660
	-	10	2170	70	N_/H_0	6	1490		2 2	12	1180
		12	1690	100	N_/H_0	6	2670	200	N ₂ /H ₂ 0	20	2170
200	0 ₂ /Air	20	1590			12	1350		2 2	25	1350
		25	1250	200	N_/H_0	20	1190	300	N ₂ /H ₂ 0	25	1560
300	0 ₂ /Air	20	2430		2 2	25	910		2 2	35	760
		25	1830	300	N_/H_0	25	1030		H35/N ₂	25	2190
		35	1080		2 2	35	720	400	N,/H,Ó	20	2170
400	0 ₂ /Air	25	2100	300	H35/N	25	920		2 2	40	1280
		40	1110		2	40	600	400	H35/N ₂	25	2330
		50	790	400	N_/H_0	20	2286		2	50	810
					2 2	40	760				
				400	H35/N ₂	25	1170				
					2	50	440				
				400	H35/H35	100	90				

Note: The cutting speed chart includes preliminary data and is subject to change without notice. Take care in comparison. The speeds noted above are best cut speeds. Often, competitors show maximum cutting speeds. Although much higher speeds can be achieved, edge quality and bevel angle may be compromised. The capabilities shown in this table were obtained by using new consumables, correct gas and current settings, accurate torch height control and with the torch perpendicular to the workpiece. Please contact Thermal Dynamics for more information.



INTELLIGENT HEIGHT CONTROL

Thermal Dynamics®

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.

Sid





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 Voila (emid 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) 127x100x400 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.



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



Thermal Dynamics®

Integrated plasma systems have revolutionized the high-end, high-capacity, automated plasma cutting industry. Thermal Dynamics' iCNC Performancee makes it possible to build low-cost machines with high-end, professional performance that have been unavailable until now.



icnc performance^e



Integrated plasma systems have revolutionized the high-end, highcapacity, automated plasma cutting industry. Thermal Dynamics' iCNC Performance^e makes it possible to build low-cost machines with high-end, professional performance that have been unavailable until now.



New with iCNC Performance^e

- Up to 2 plasma or 4 oxyfuel torches
- More CPU cores, Gigabytes and USB ports
- Easier to install

Easy to use

- Same proven operator interface; no need to learn new software
- Easy to download new nesting programs and apply to your cutting program
- Includes hole optimisation (DiameterPro); just choose material, thickness and expected cut performance
- All cutting parameters will be transferred to plasma systems and height controls
- Changes to existing cutting processes can be saved and reused
- Changes to the nesting can be done right at the iCNC control

Serviceability

- With built-in WiFi there is always a trained technician available online, no matter how remote the location
- Upgrades and troubleshooting are easy
- The iCNC Performance^e exchange program minimizes downtime

High Performance, Low Cost CNC

A CNC dedicated to plasma and oxy-fuel cutting

- Thin panel mount unit 409 x 492 x 73 mm
- 15 in. Touch Screen
- Operator panel for plasma, oxy-fuel and auxiliary functions
- Built-in WiFi
- 3-axis drive outputs (both analog and step/direction)
- Single CPU, 4 core, 1.91 GHz
- 4GB DDR3 RAM
- 5 x USB, I/O 16+40, 3 encoder inputs
- Power input 24 VDC
- Optional integrated plasma height control
- Optional servo motors with built-in amplifiers

Customizable

- Control panel only, ideal for OEM applications
- Amplifier enclosure: easy for retrofits and OEM applications where no existing enclosure exists
- Amplifier options: 400W and 750W for single drive or dual drive cutting machines
- Servo motors with built-in amplifiers or install amplifiers of your own choice

MORE THAN 60 YEARS OF CUTTING-EDGE EXPERIENCE.

Since plasma pioneers James Browning and Merle Thorpe incorporated Thermal Dynamics in 1957, TD's cutting-edge experience has been evident in every product. Whether you're looking for automated or manual plasma systems, integrated support, or high-quality consumables and accessories, Thermal Dynamics brings innovation and performance to every solution.



