

THERMAL DYNAMICS®



Ultra-Cut™ 100 High Precision Plasma Cutting System

1/2" (12mm) Production Capacity

3/4" (20mm) Max Pierce Capacity

1" (25mm) Edge Start Capacity

	Thermal Dynamics®	Hypertherm®	InnerLogic®	Kjellberg®	Kjellberg®	
Competitive Comparison	Ultra-Cut 100	HD3070	FineLine® 100	* HiFocus® 80i	* HiFocus® 100 <i>(Precision cutting only up to 50A @ 8mm)</i>	Ultra-Cut 100 Advantages
Output Range	10-100 Amps	15-100 Amps	15-100 Amps	10-80 Amps	10-130 Amps	True Widespread Cutting Range
Production Capacity	1/2" (12mm)	1/2" (12mm)	1/2" (12mm)	1/2" (12mm)	1/2" (12mm)	
Max Piercing Capacity	3/4" (20mm)	1/2" (12mm)	1/2" (12mm)	3/4" (20mm)	1" (25mm)	
Edge Start Capacity	1" (25mm)	3/4" (20mm)	3/4" (20mm)	1" (25mm)	1-1/2" (38mm)	
Cut Speed @ 3/8" & Max Current	106 IPM	95 IPM	90 IPM	70 IPM	63 IPM	Fastest Cut Speed
Cut Speed @ 1/2" & Max Current	70 IPM	64 IPM	65 IPM	55 IPM	70 IPM (gen. purpose quality)	
Cut Speed @ 3/4" & Max Current	35 IPM	n/a	35 IPM (Edge Start)	17 IPM (Edge Start)	47 IPM (gen. purpose quality)	
Oxygen Plasma Capability	Yes	Yes	Yes	Yes	Yes	
Water Mist Secondary	Yes	No	No	No	No	Most Economic @ Non-Ferrous
Marking Capability	Yes	No	Yes	Yes	No	
Input Voltage	208-230/460V ±10%, 3ph, 50/60 Hz 400V ±10%, 3ph, 50/60 Hz 600V ±10%, 3ph, 50/60 Hz	200/208/220/240/380/415/ 480/600V, 3ph, 50/60 Hz	208V, 3ph, 60 Hz 230/460V, 3ph, 60 Hz 380V, 3ph, 50 Hz 415V, 3ph, 50 Hz 575V, 3ph, 60 Hz	400V, 3ph, 50 Hz	400V, 3ph, 50 Hz	
Power Source	Inverter	Chopper	Chopper	Inverter	Chopper	
Duty Cycle	100% @ 100A @ 180 VDC	80% @ 100A @ 150 VDC	100% @ 100A @ 175 VDC	100% @ 80A @ 120 VDC	100% @ 100A	Highest kW Output
Torch Cooling	Liquid	Liquid	Liquid	Liquid	Liquid	
Arc Starting	HF / DC Pilot	HF / DC Pilot	HF / DC Pilot	HF / DC Pilot	HF / DC Pilot	Uninterrupted Arc Starting, Excellent for Expanded Metal Cutting
Auto Pilot Restart (expanded metal)	Yes	No	Yes	Yes	Yes	
Tip Saver Circuit	Yes	No	No	No	No	Better Parts Life
Over Voltage Protection	Yes	Yes	Yes	Yes	Yes	
Amperage Adjustment	Variable	Variable	Variable	Variable	Variable	
Torch Model	XT™-300	PAC 186		PerCut 100	PerCut 100	XT™ Technology
Dimensions	H 41.5" (1054mm) W 27.5" (700mm) L 38.5" (978mm)	H 38.0" (970mm) W 24.0" (610mm) L 36.0" (920mm)	H 25.0" (635mm) W 45.2" (1148mm) L 40.2" (1021mm)	H 38.2" (970mm) W 20.1" (510mm) L 38.2" (970mm)	H 40.4" (1025mm) W 30.4" (711mm) L 38.2" (970mm)	
Weight	420 lbs. (191 kg)	545 lbs. (274 kg)	600 lbs. (272 kg)	354 lbs. (161 kg)	552 lbs. (251 kg)	Lowest weight @ 100 amps
Warranty (Power Supply)	2 Years	2 Years	2 Years	2 Years	2 Years	

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*Not Available in the U.S.

