

CUTMASTER® 82 Plasma Cutting System

THERMAL DYNAMICS
Professional

3/4" (20mm) Recommended Cut - 1 1/2" (40mm) Maximum Cut

Competitive Comparison	Thermal Dynamics	Hypertherm®	Miller®	Lincoln®
	CUTMASTER 82	Powermax® 1000	Spectrum® 875	Pro-Cut® 55
Max Amperage Output - Amps	80	60	60	55
Min Amperage Output - Amps	20	20	20	25
Output Power - Kw	9	8.4	9.8	Not Published
Recommended Cut - Inches (mm)	0.750 (20)	0.750 (19)	0.875 (22.2)	Not Published
Max Cut - Inches (mm)	1.500 (40)	1.250 (32)	1.250 (32.2)	0.750 (19)
Pierce Rating - Inches (mm)	0.625 (15)	Not Published	Not Published	Not Published
Input Voltage	208/230-460V 1/3 PH, 50/60 Hz 400V 3 PH, 50 Hz 600V 3 PH, 50/60 Hz	200-600V 1/3 PH, 50/60 Hz CSA 230-400V, 3 PH, 50-60 Hz, CE	208/230V 1 Phase	208/230/460/1/3/50/60 460/575/3/50/60 200/380-415/3/50/60
Auto Sensing Input Voltage	No	Yes	No	No
Current Draw 1 Phase - Amps				
208V	72	48	47	60
230V	65	44	42	55
460V	33	22	No Machine Available	30
Current Draw 3 Phase - Amps				
208V	36	29	No Machine Available	31
230V	33	26	No Machine Available	28
400V	19	15	No Machine Available	17-16
460V	16	12	No Machine Available	17
600V	12	11	No Machine Available	14 @ 575
Duty Cycle	40% @ 80A 60% @ 65A 100% @ 55A	50% @ 60A	40% @ 60A 208V 50% @ 60A 230V	50% @ 55A
Auto Pilot Restart	Yes	Yes	Yes	Yes
Tip Saver Circuit	Yes	No	No	No
Over Voltage Protection	Yes	Yes	Yes	Yes
Power Factor Correction	No	Yes	Yes	No
Multi Voltage	Yes	Yes	No	Yes
Dimensions (H x W x L) - Inches (mm)	15 x 12 x 24 (381 x 305 x 610)	19.6 x 10.7 x 23.1 (498 x 271 x 586)	13.5 x 8.75 x 18.5 (343 x 222 x 470)	12.6 x 11.0 x 26 (320 x 280 x 660)
Weight - lbs (kg)	43 (19.5)	83 (37) with Torch	52 (23.6)	70 (32) with torch
Torch Model	SL60 Hand SL100 Mech & Auto	T-60	ICE-60T	PTC-80
Arc Length - Inches (mm)	1.45 (36.8)	Not Published	Not Published	Not Published
Transfer Height - Inches (mm)	0.385 (9.8)	Not Published	Not Published	Not Published
Air Pressure - psi (bar)	75 (5.2)	90 (6.2)	90 (6.2 kPa)	70 (4.8)
Rec Cut Speed - ipm (mm/min)				
1/4" (6mm)	102 (2590)	86 (2184)	86 (2184)	65 (1651)
1/2" (13mm)	40 (1016)	27 (686)	27 (686)	28 (711)
3/4" (20mm)	17 (432)	14 (356)	14 (363)	13 (330)
Industrial Price	\$2,825	\$2,813	\$2,399	\$2,888
Warranty - Years (Unit/Torch)	4/1	3/1	3/1	3/1

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U.S. Customer Care: 800-752-7621 / FAX 800-221-4401 or 800-943-9288 • International Customer Care: 905-827-9777 / FAX 905-827-9797

U.S. Automation Customer Care: 866-279-2628 / FAX 800-535-0557 • www.thermal-dynamics.com