

CUTMASTER[®] 102 Plasma Cutting System

THERMAL DYNAMICS
Professional

1" (25mm) Recommended Cut - 1 3/4" (45mm) Maximum Cut

Competitive Comparison	Thermal Dynamics	Hypertherm [®]	Miller [®]	Lincoln [®]
	CUTMASTER 102	Powermax [®] 1250	Spectrum [®] 1000	Pro-Cut [®] 80
Max Amperage Output - Amps	100	80	80	85
Min Amperage Output - Amps	20	25	Not Published	35
Output Power - Kw	12	12	12	11.5
Recommended Cut - Inches (mm)	1.000 (25)	0.875 (22)	1.000 (25.4)	NA
Max Cut - Inches (mm)	1.750 (45)	1.500 (38)	1.500 (38)	1.250 (32)
Pierce Rating - Inches (mm)	0.750 (20)	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	200/208/230/240/480V, 1 PH 200/208/230/240/400/480/600V, 3 PH	208-575V, 1/3 PH 50/60 Hz	208/230/460/1/3/50/60 460/575/3/50/60 220/380/415/3/50/60
Auto Sensing Input Voltage	No	Yes	Yes	No
Current Draw 1 Phase - Amps				
208V	96	70	69	87
230V	87	60	62	81
460V	44	31 @ 480V	Not Published	48
Current Draw 3 Phase - Amps				
208V	48	40	41	48
230V	44	37	36	44
400V	25	21	21	24-27
460V	22	17	18	25
600V	17	17	14	20 @ 575V
Duty Cycle	60% @ 100A 80% @ 80A 100% @ 70A	60% @ 80A	40% 1 PH / 60% 3 PH	60% @ 80A
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	Yes	Yes
Dimensions (H x W x L) - Inches (mm)	15 x 12 x 30 (381 x 305 x 762)	19.6 x 10.65 x 23.1 (498 x 271 x 586)	17.0 x 12.5 x 20.5 (432 x 318 x 521)	13.7 x 16.5 x 29.5 (348 x 419 x 749)
Weight - lbs (kg)	62 (28.1)	96.6 (44)	92 (41.7) with torch	98 (44.5) with torch
Torch Model	SL100 (Hand, Mech, Auto)	T80 / T80M	ICE-80T	PCT-80
Air Pressure - psi (bar)	70 (4.8)	70 (4.8)	90 (6.2)	70 (4.8)
Rec Cut Speed - ipm (mm/min)				
1/2" (13mm)	50 (1270)	39 (991)	40 (1016)	36 (914)
3/4" (20mm)	27 (686)	20 (508)	20 (508)	18 (457)
1" (25mm)	14 (356)	10 (254)	10 (250)	11 (297)
Industrial Price	\$3,675	\$3,694	\$3,799	\$3,987
Warranty - Years (Unit/Torch)	4/1	3/1	3/1	3/1

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