

CUTMASTER® 39 Plasma Cutting System

THERMAL DYNAMICS
Professional

1/4" (6mm) Recommended Cut - 5/8" (15mm) Maximum Cut

Competitive Comparison	Thermal Dynamics®	Hypertherm®	Miller®	Lincoln®
	CUTMASTER 39	Powermax® 30	X-treme® 375	Pro-Cut® 25
Max Amperage Output - Amps	30	30	27	25
Min Amperage Output - Amps	20	15	14	12
Output Power - Kw	2.8	2.49	3.2	Not Published
Recommended Cut - Inches (mm)	0.250 (6)	0.250 (6)	0.375 (10)	Not Published
Max Cut - Inches (mm)	0.625 (15)	0.500 (12)	0.625 (16)	0.375 (9.5)
Pierce Rating - Inches (mm)	0.250 (6)	Not Published	Not Published	Not Published
Input Voltage	120-230V	120-230V	120-230V	120-230V
Auto Sensing Input Voltage	Yes	Yes	Yes	Yes
Current Draw 1 Phase - Amps				
120V	29	28	28	28.8
230V	17	14	14	13.9
Duty Cycle	35% @ 30A 60% @ 22A	35% @ 120V 50% @ 230V	27A @ 92VDC, 35%	35% @ 115V 60% @ 230V
Auto Pilot Restart	Yes	Advanced Pilot Arc Control	No	Yes
Over Voltage Protection	Yes	Yes	Yes	Yes
Power Factor Correction	Yes	Yes	Yes	No
Multi Voltage	Yes	Yes	Yes	Yes
Dimensions (H x W x L) - Inches (mm)	15 x 12 x 24 (381 x 305 x 610)	11.5 x 5.5 x 13 (292 x 140 x 330)	9 x 5.5 x 13.125 (229 x 140 x 333)	10.2 x 6.3 x 16.1 (260 x 160 x 410)
Weight - lbs (kg)	39 (17.7)	20 (9.1)	18 (8.2)	35 (15.9)
Torch Model	SL60	T30v	ICE-27T	PCT 20
Arc Length - Inches (mm)	0.3125 (7.9)	Not Published	Not Published	Not Published
Transfer Height - Inches (mm)	0.500 (12.7)	Not Published	Not Published	Not Published
Air Pressure - psi (bar)	65 (4.5)	80 (5.5)	90 (6.2)	55 (3.8)
Flow - cfm (L/m)	5 (141)	4.0 (113)	4.5 (128)	4 (113)
Rec Cut Speed - ipm (mm/min)				
18 ga (1.3mm)	300 (7620)	Not Published	Not Published	Not Published
3/16" (5mm)	45 (1143)	Not Published	40 (1016)	Not Published
1/4" (6mm)	20 (508)	Not Published	24 (610)	Not Published
3/8" (10mm)	10 (254)	Not Published	14 (256)	Not Published
Industrial Price	\$1,454	\$1,351	\$1,525	\$1,596
Warranty - Years (Unit/Torch)	4 / 1	3/1	3/1	2/1

Hypertherm and Powermax are registered trademarks of Hypertherm Co. Miller and Spectrum are registered trademarks and X-treme is a trademark of Miller Electric Co., a division of Illinois Tool Works, Inc., Lincoln Pro-Cut is a registered trademark of Lincoln Electric Co. The above mentioned trademarks are in no way affiliated with Thermal Dynamics or Thermadyne Industries, Inc. CUTMASTER and Thermal Dynamics are registered trademarks of Thermal Dynamics Corp. and Thermadyne Industries Inc.

All Competitive Specifications taken from Competitive published documentation. 1TORCH SL60 and SL100, trademarks of Thermal Dynamics Corporation, are registered with the U.S. Patent and Trademark Office, and are the subject of trademark registrations and pending applications in numerous other countries. For information on trademark registrations of Thermal Dynamics Corporation, contact the local trademark offices in the countries of interest.

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 800-553-0557 • www.thermal-dynamics.com

© Thermadyne Industries, Inc., 2009 Form No. 63-2742 (1/5/09)