Victor® Thermal Dynamics®

# **AUTOMATED PLASMA CUTTING**

## **CUTTING SPEED CHART**

Material	Amps	Plasma/ Shield	Thickness [mm]	Speed mm/min
Mild Steel				
	20	Air/Air	1.5	4.57
	30	Air/Air	1.5	6.10
	40	Air/Air	1	3990
			2	2920
			3	1810
	00	A' - /A' -	5	1345
	60	Air/Air	6	3650
			10	2145 1180
			12	795
	80	Air/Air	6	2745
	00	All/All	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
Stainless Steel				
	20	Air/Air	1.5	4.57
	30	Air/Air	1.5	6.10
	40	Air/Air	2	1140
			3	980
	00	A' - / A' -	5	715
	60	Air/Air	4	2865
			6	1790
			10 12	725 580
	80	Air/Air	6	2765
	00	All/All	10	1070
			12	765
	100	Air/Air	10	1575
			12	1255
			15	685
	120	Air/Air	10	2390
			12 15	1750
			15	1160
Aluminium				
	20	Air/Air	1.5	4.57
	30	Air/Air	1.5	6.10
	40	Air/Air	3	3500 2350
			5	1740
	60	Air/Air	4	5230
	- 00	All/All	6	2640
			10	1085
			12	845
	80	Air/Air	6	3190
			10	1330
			12	1060
			15	745
	100	Air/Air	10	1575
			12	1255
	100	Aiu/Ai	20	470
	120	Air/Air	10	2660
			12	2100
			15	1445

NOTE: Speeds reflected in this cutting chart are representative of optimum quality and speed. The chart data comes directly from the operating manual. BEWARE of competitor's claims, as the data represented in their brochure does not come from their operating manuals. Cut speeds in the competitor's brochure may be inflated by as much as 30-40% over the cut charts in their operating manuals.

### **SL100®SV Automation Torch**



1TORCH, SL100SV and ATC, trademarks of Victor Technologies, 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 Victor Technologies, contact the local trademark offices in the countries of interest.



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# **AUTOMATED PLASMA CUTTING**

# 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<sup>™</sup>

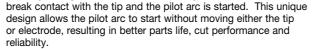
The SL100<sup>®</sup>SV 1Torch<sup>®</sup> introduces a completely new tip technology which eliminates the need for a separate plasma gas distributor. Each tip includes plasma gas ports uniquely tuned to optimize cutting performance at its rated current. Select from 20, 30, 40, 60, 80, 100 or 120 Amp tips to optimize your cutting. The result is Total Gas Management. Precision gas control, longer consumable parts life and better cut

#### Superior Quality at All Amperages

Whether you are fabricating thick plate or cutting ornamental shapes, the CUTMASTER® Automation Series is perfect for the job. At 120 Amp output, the CUTMASTER A120 produces the BEST CUT on 12 mm mild steel plate at 1.86m/min. For those cutting intricate shapes, select low amperage tips for kerf widths less than 1.14 mm wide.

Whether you cut plate, HVAC duct work or ornamental shapes, the

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



The start cartridge is the only moving part in the SL100SV torch. Unlike competitive torches, where the moving part is in the torch head. If the moving parts of a competitor's torch fails, the entire torch head has to be replaced. This is expensive, complicated, and time consuming.

#### Choice of Tip Shielding

Start Cartridge

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

## **ACCESSORIES**

### CNC Interface Cable

performance.

Shielded multi pair cable includes start/stop, OK to move, and divided arc voltage.

CUTMASTER Automation Series is right for you.

7,6 m 9-8312 30,5 m 9-8316 15,2 m 9-8313 38,0 m 9-8317 22.8 m 9-8315

CNC cable for start/stop and OK to move only 7,6 m 9-1008 15,2 m 9-1011 10.6 m 9-1010

### 1Torch® Automation Leads Packages

SL100<sup>®</sup> SV180<sup>°</sup> - (Torch/Leads) 7,6 m 7-4001 23 m 7-4004 10,6 m 7-4002 30,5 m 7-4005 15,2 m 7-4003

#### Pinion Assembly

Cat. No. 7-2827 35 mm Diameter

## Single Stage Air Filter Kit

Cat. No. 7-7507 (Filter Body 9-7740, Hose 9-7742, Filter Element 9-7741)

#### Two Stage Air Filter Kit Cat. No. 9-9387

1st Stage Replacement Cartridge 9-1021 2nd Stage Replacement Cartridge 9-1022

## Remote Pendant Control

6.1 m Cat. No. 7-3460 Remote Pendant Control for your mechanized application.

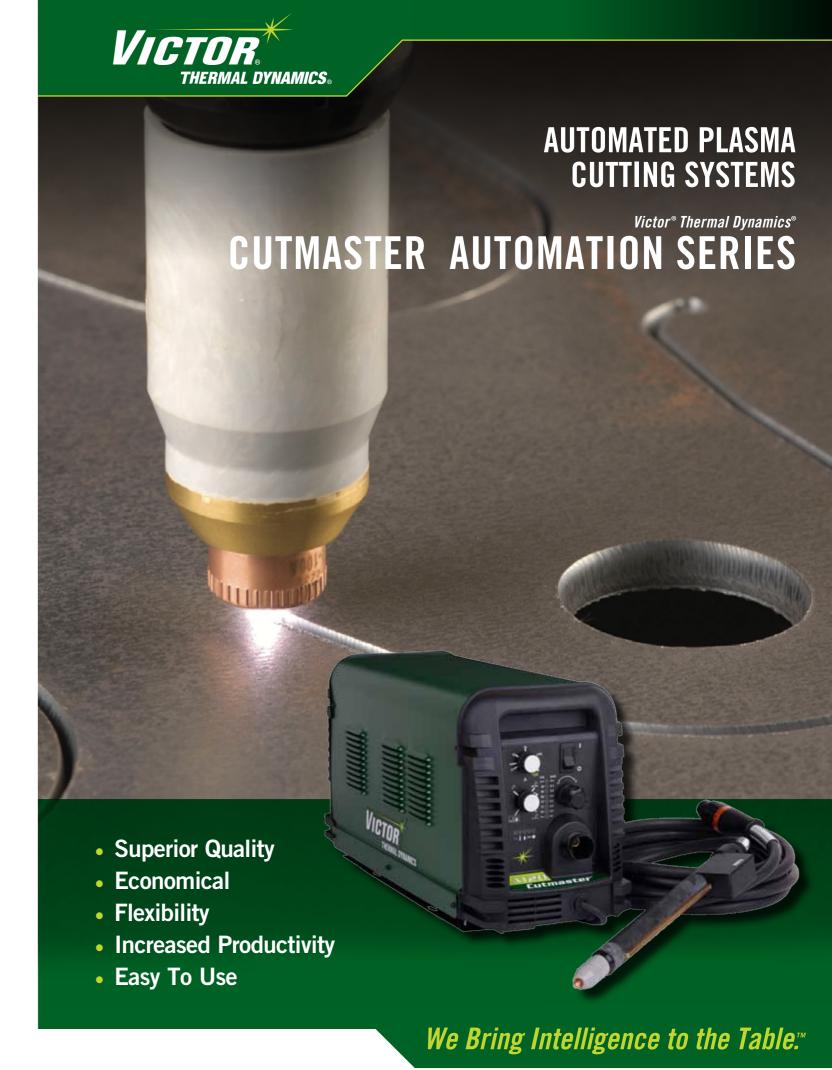
#### Hand Pendant Extension 7.6 m Cat. No. 7-7744





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# We Bring Intelligence to the Table.™

# **CUTMASTER®** Automation Series

The Cutmaster 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 to offer the following advantages:

- A powerful 80% Duty Cycle to handle all-day production cutting in the toughest environments
- Light-weight, compact design and convenient mounting feet allow for easy mounting in any application
- Valve in torch design reduces cycle time between parts and increases productivity
- CNC Interface connection located on the rear of the power supply offering "Start/Stop",
   "OK to MOVE" and Divided Arc Voltage
- Full arc voltage is available using an internal terminal connection
- Dedicated automation software improves cycle time and performance in many applications

The new A-Series includes the SL100®SV 1Torch® with standard ATC Quick Disconnect in lengths of 7.6m, 10.6m and 15.2m (Longer torch leads up to 30.5m available). Our 1Torch start technology eliminates the electronic interference that can occur with other designs. 1Torch provides quick, reliable starts and a strong pilot arc to pierce heavy plate. With auto-pilot restart, it can also cut expanded metal quickly and easily.



# **CUTMASTER®** Automation Series









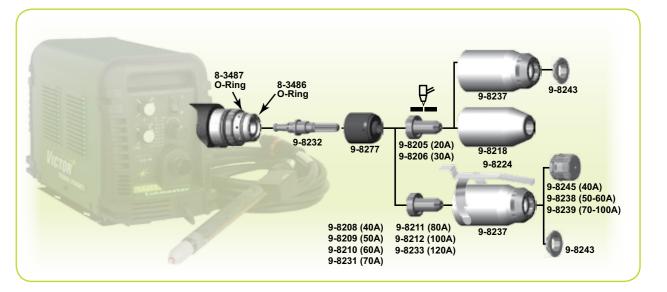
## **Specifications**

		CUTMASTER® A40	CUTMASTER® A60	CUTMASTER® A8U	CUTMASTER® A120		
	Rated Output	40 Amps	60 Amps	80 Amps	120 Amps		
	Output Range	20 - 40 Amps, 60 Amps Max., Adjustable	20 - 60 Amps, 80 Amps Max., Adjustable	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					
	Input Amps @ Max Output	16 (380V, 3 ph) 16 (400V, 3 ph)	17 (380V, 3 ph) 17 (400V, 3 ph)	29 (380V, 3 ph) 28 (400V, 3 ph)	35 (380V, 3 ph) 36 (400V, 3 ph)		
	Kilowatt Output	6.3 kW	9 kW	12 kW	15.4 kW		
	Duty Cycle	80% @ 40 Amps 100% @ 30 Amps	80% @ 60 Amps 100% @ 50 Amps	<b>80% @ 80 Amps</b> 100% @ 70 Amps	80% @ 120 Amps 100% @ 100 Amps		
	MAX OCV	260 VDC	260 VDC	260 VDC	260 VDC		
	Gas Type	Air @ 5.2 bar @ 189 lpm	Air @ 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	19.5kg - Unit, Power Cable, (Torch and Leads)	19.5kg - Unit, Power Cable, (Torch and Leads)	28.6kg - Unit, Power Cable, (Torch and Leads)	28.6kg - Unit, Power Cable, (Torch and Leads)		
	Dimensions	H 343 mm x W 248 mm x L 533 mm	H 343 mm x W 248 mm x L 533 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, and divided arc voltage	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	CNC rear panel connector, Start/Stop OK to Move, and divided arc voltage		
	Input Power Cable	2 m without plug (400V)					
	Warranty	3 Years Power Supply & 1 Year Torch	3 Years Power Supply & 1 Year Torch	3 Years Power Supply & 1 Year Torch	3 Years Power Supply & 1 Year Torch		
ĺ	Certifications	IP-23C, CSA, NTRL/C, CE, CCC					
	Torch Configuration						
	Torch	SL100°SV w/ATC°, 180° Automation					

\*Systems include: power supply, automation torch with 1 3/8' (35 mm) diameter non-metallic mounting tube / 32 pitch rack (detachable), pinch block assembly, CNC interface cable, spare parts kit (15 tips, 3 electrodes, start cartridge), input power cable (selected systems), work cable, and clamp.

(subject to change without notice)

# **CONSUMABLE PARTS**



# **PRODUCT SELECTION**



