



INDUSTRIAL PLASMA CUTTING EQUIPMENT.



**THERMAL
DYNAMICS**
AN ESAB® BRAND



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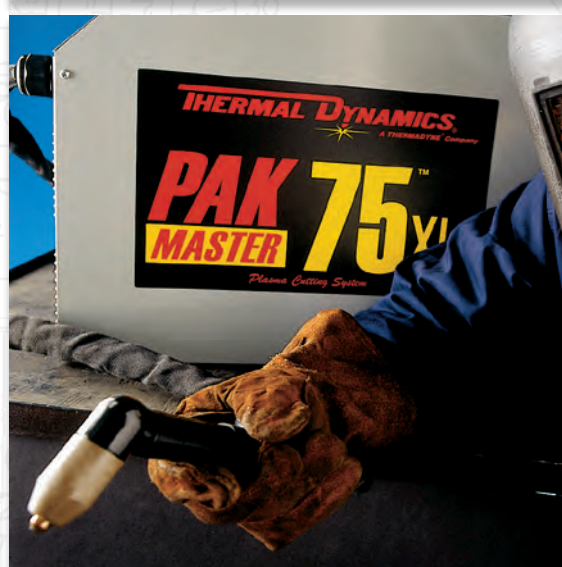
WARRANTY

19

AT THE FOREFRONT OF PLASMA CUTTING INNOVATION.



Dr. James Browning, Founder



1957

Dr. James Browning & Merle Thorpe found Thermal Dynamics.

1970

First PAK® unit-power supply, PAK 40, cooling system, and console combined into one unit.

1975

PAK 44 incorporated plug-in relays, torch auto-pilot, and constant current.

1980

First single phase machine introduced, PAK 5.

1982

PAK-3, the first PAC system to use air as plasma gas, for cutting gauge thickness material.

1990

Plasma gouging introduced, PAK 15XC

1997

PakMaster® XL series and the Econopak® provide more portability.

1998

The Drag-Gun® introduced as the first cutting system with a built-in air compressor.



1999
PakMaster® XL Plus Series
introduced.

2000
Cutmaster® 50 & Sure Lok® RPT
replacement torches introduced.

2002
1Torch® and ATC® connection were
introduced with SureLok® technology.
First non-High Frequency system
introduced with the Cutmaster® 38

2004
Cutmaster 1Series®,
51/81/101 launched.

2008
Cutmaster TRUE™ Series;
39/52/82/102/152 launched.

2011
Cutmaster 42 with SL40 torch
utilizing V2S technology.

2014
Thermal Dynamics becomes
An ESAB Brand

2016
Cutmaster 60i
launched.

CUTMASTER® TRUE™ SERIES PLASMA CUTTING SYSTEMS

Cutmaster TRUE Series has been designed with the idea that recommended cut capacity should also be the TRUE cut capacity. The TRUE Cut Series eliminates the concept of having to “buy up”, purchasing a machine larger than you actually need.

With the introduction of the Cutmaster TRUE Series, a one-half inch recommended capacity machine will cut one-half inch material ALL DAY, EVERY DAY. NO EXCEPTIONS.



TRUTH #1

- True Confidence - The Cutmaster® TRUE™ Series microprocessor controlled front panel LED's assure extreme operator confidence and error free use from setup to clean up.*

TRUTH #2

- True Strength -The Cutmaster TRUE Series allows you to work all day at our recommended cut capacity. But when you need that extra punch, you can be confident that it's there.

TRUTH #3

- True Protection - As if a 4 year unlimited power supply warranty wasn't enough, the Cutmaster TRUE Series is the only line of plasma cutting machines that features TRUE GUARD™ – a rugged roll bar for added durability on our larger plasma systems.*

TRUTH #4

- True Tip™ - The Victor Thermal Dynamics Cutmaster TRUE Series plasma system offers the only 60 Amp drag cutting tip on the market today.*

TRUTH #5

- True Flexibility - The multi-voltage Cutmaster TRUE Series features the versatile and patented 1Torch® with SureLok® technology and consumable parts, lead extensions which provide cutting up to 100' (30.5 m) from power supply, and the flexibility to move quickly from hand to mechanized cutting all with the change of a Torch. (Add PCB for CNC interface.)*

TRUTH #6

- True Portability - The Cutmaster TRUE Series offers lighter, more portable machines without compromising performance.

CUTMASTER 40—LIGHT DUTY

The Cutmaster® 40 with SL60™ 1Torch® is the perfect combination of end-user insight, advanced technology, and intelligent design. Packed with power and offering the highest power-to-weight ratio in its class, the Cutmaster 40 with SL60 1Torch also has best in class cutting arc length and the most empowering and engaging user experience no matter the application.

- Automotive Bodies
- Industrial and General Fabrication
- General Manufacturing
- HVAC
- Repair and Maintenance
- Training Schools



PERFORMANCE

- Maximum Cut - 1 in (25 mm)
- Recommended Cut - 1/2 in (12 mm)
- Pierce Rating - 1/2 in (12 mm)
- Max Amperage Output - 15 - 40A
- Output Power - 3.8 kW

DIMENSIONS

- 7.9" W x 12.6" H x 18.1" D (200 mm x 320 mm x 460 mm)

WEIGHT

- 22 lbs (10 kg)

TORCH

- SL60 / SL60QD
- 90 – 125 psi (6.2 – 8.6 bar)
- 170 cfh (80 l/min)

INPUT VOLTAGE

- 110 – 240 VAC +/- 10%, 50/60 Hz, 1ph

DUTY CYCLE (@ 40° C)

- 40% @ 40A
- 60% @ 30A
- 100% @ 20A

AMPERAGE DRAW

- 29 A @ 208V
- 26 A @ 230V
- 25.3A @115V

PART NO.	TORCH	INPUT VOLTAGE
1-4000-1	TD Cutmaster 40, 1 ph with SL60 1Torch 16 ft. (5 m) 90° Head	208 – 230 VAC, 1 Phase

CUTMASTER 58—MEDIUM DUTY

The Cutmaster 58 is the most powerful 5/8 in. (16 mm) machine on the market today. This unit cuts through mild, stainless, or aluminum up to 1 in. (25 mm) thick. The Cutmaster 58 combines power with the well-known performance and features of the industry-leading 1Torch®.

- Construction
- Maintenance
- Repair
- Fabrication
- 4-Year warranty power supply
- 1-Year warranty torch



PERFORMANCE

- Maximum Cut - 1 in. (25 mm)
- Recommended Cut - 5/8 in. (16 mm)
- Pierce Rating - 1/2 in. (13 mm)

- Max Amperage Output - 60A
- Output Power - 6.2 kW

DIMENSIONS

- 12" W x 15" H x 24" D (305 mm x 381 mm x 610 mm)

WEIGHT

- 43 lbs (19.5 kg)

TORCH

- SL60QD
- Air Pressure - 75 psi (5.2 bar)
- 6.7 cfm (190 l/m)

INPUT VOLTAGE

- 208-230/460V, 1/3 ph, 50/60 Hz
- 400V, 3 ph, 50 Hz
- 600V, 3 ph, 50/60 Hz (Canada)

DUTY CYCLE (@ 40° C)

- 40% @ 60A
- 60% @ 50A
- 100% @ 30A

AMPERAGE DRAW

- 45 A @ 230V, 1 ph
- 24 A @ 230V, 3 ph
- 16 A @ 460V, 3 ph

PART NO.	TORCH	INPUT VOLTAGE
1-5830-1	SL60QD, 20 ft. (6 m) lead	208-230 VAC
1-5830-2	SL60QD, 20 ft. (6 m) lead	400-480 VAC
1-5830-5	SL60QD, 20 ft. (6 m) lead	600 VAC
1-5831-1	SL60QD, 50 ft. (15.2 m) lead	208-230 VAC
1-5831-2	SL60QD, 50 ft. (15.2 m) lead	400-480 VAC
1-5831-5	SL60QD, 50 ft. (15.2 m) lead	600 VAC

CUTMASTER 60i—MEDIUM DUTY

The Cutmaster 60i is the most powerful 5/8" (16 mm) machine on the market today. This unit cuts through mild, stainless, or aluminum up to 1 1/2" (38 mm) thick. The Cutmaster 60i combines power with the well known performance and features of the industry-leading 1Torch®.

- Construction
- Maintenance
- Repair
- Fabrication
- 4-Year warranty power supply
- 1-Year warranty torch



PERFORMANCE

- Maximum Cut - 1 1/2" (38 mm)
- Recommended Cut - 5/8" (16 mm)
- Pierce Rating - 5/8" (16 mm)
- Max Amperage Output - 60A
- Output Power - 7.6 kW

DIMENSIONS

- 7.85" W x 14.15" H x 21.12" D
(199 mm x 359 mm x 593 mm)

WEIGHT

- 37 lbs (19.5 kg)

TORCH

- SL60
- Air Pressure - 75 psi (5.2 bar)
- 6.7 cfm (190 l/m)

INPUT VOLTAGE

- 208-230/460V, ± 10, 1/3 ph, 50/60 Hz
- 400V, 3 ph, 50 Hz

DUTY CYCLE (@ 40° C)

- 50% @ 60A
- 60% @ 50A
- 100% @ 40A

AMPERAGE DRAW

- 39A @ 230V, 1 ph
- 23A @ 230V, 3 ph
- 19A @ 460V, 3 ph

PART NO.	TORCH	CONFIGURED INPUT VOLTAGE
1-5630-1x	SL60° 75° hand torch 20 ft (6.1 m) lead	208-230V, 1 Phase
1-5630-2x	SL60 75° hand torch 20 ft (6.1 m) lead	460V, 3 Phase
1-5631-1x	SL60 75° hand torch 50 ft (15.2 m) lead	208-230V, 1 Phase
1-5631-2x	SL60 75° hand torch 50 ft (15.2 m) lead	460V, 3 Phase

Cutmaster Systems include: Power supply, torch, spare parts kit, input power cable, work cable and clamp, and an instructional DVD.
See pages 14-15 for accessories and page 13 for torch consumable parts.

CUTMASTER 82—MEDIUM/HEAVY DUTY

The Cutmaster 82 weighs in at a mere 43 lbs (19.5 kg) while still offering superior cutting power. Don't let the size of this unit fool you, it's more than capable of cutting 1" (25 mm) with a maximum capability of 1 1/2" (40 mm). This unit, like all other TRUE™ Cutmasters, is equipped with the 1Torch®.

- Heavy fabrication
- Manufacturing
- Contractors
- 4-Year warranty power supply
- 1-Year warranty torch



PERFORMANCE

- Maximum Cut - 1 1/2" (40 mm)
- Recommended Cut - 1" (25 mm)
- Pierce Rating - 5/8" (15 mm)
- Max Amperage Output - 80A
- Output Power - 9 kW

DIMENSIONS

- 12" W x 15" H x 24" D
(305 mm x 381 mm x 610 mm)

WEIGHT

- 43 lbs (19.5 kg)

TORCH

- SL60
- Air Pressure - 70 psi (4.8 bar)
- 6.7 cfm (190 l/m)

INPUT VOLTAGE

- 208-230/460V, 1/3 ph, 50/60 Hz
- 400V, 3 ph, 50 Hz
- 600V, 3 ph, 50/60 Hz

DUTY CYCLE (@ 40° C)

- 40% @ 80A
- 60% @ 65A
- 100% @ 55A

AMPERAGE DRAW

- 72A @ 230V, 1 ph
- 39A @ 230V, 3 ph
- 21A @ 460V, 3 ph

*Recommended cut specifications based on handheld use.

PART NO.	TORCH	CONFIGURED INPUT VOLTAGE
1-1130-1	SL60° 75° hand torch 20 ft (6.1 m) lead	208-230V, 1 Phase
1-1130-2	SL60 75° hand torch 20 ft (6.1 m) lead	460V, 3 Phase
1-1130-5	SL60 75° hand torch 20 ft (6.1 m) lead	600V, 3 Phase
1-1131-1	SL60 75° hand torch 50 ft (15.2 m) lead	208-230V, 1 Phase
1-1131-2	SL60 75° hand torch 50 ft (15.2 m) lead	460V, 3 Phase
1-1131-5	SL60 75° hand torch 50 ft (15.2 m) lead	600V, 3 Phase

Cutmaster Systems include: Power supply, torch, spare parts kit, input power cable, work cable and clamp, and an instructional DVD.
See pages 14-15 for accessories and page 13 for torch consumable parts.

CUTMASTER 102—HEAVY DUTY

The Cutmaster 102 weighs in at 62 lbs and provides 100 amps of cutting power. This unit's light weight compact design combined with multiple voltage selection makes it the most portable and powerful cutting machine available. This unit combined with the 1Torch® has a maximum cut capacity of 1 3/4" (45 mm). More cut capacity than any other system in its class!

- Heavy fabrication
- Manufacturing
- 4-Year warranty power supply
- 1-Year warranty torch



PERFORMANCE

- Maximum Cut - 1 3/4" (45 mm)
- Recommended Cut - 1" (25 mm)
- Pierce Rating - 3/4" (20 mm)
- Max Amperage Output - 100A
- Output Power - 12 kW

DIMENSIONS

- 12" W x 15" H x 30" D
(305 mm x 381 mm x 762 mm)

WEIGHT

- 62 lbs (28.1 kg)

TORCH

- SL100
- Air Pressure - 70 psi (4.8 bar)
- 7.5 cfm (212 l/m)

INPUT VOLTAGE

- 208-230/460V, 1/3 ph, 50/60 Hz
- 400V, 3 ph, 50 Hz
- 600V, 3 ph, 50/60 Hz

DUTY CYCLE (@ 40° C)

- 60% @ 100A
- 80% @ 80A
- 100% @ 70A

AMPERAGE DRAW

- 95A @ 230V, 1 ph
- 45A @ 230V, 3 ph
- 29A @ 460V, 3 ph

CUTMASTER 152—EXTRA HEAVY DUTY

The Cutmaster 152, weighing only 62 lbs, offers multi-voltage 1-or 3-phase input capability and provides 120 amps of cutting power for a 1 1/4" (30 mm) recommended cut and 2" (50 mm) maximum cut. This compact unit, like all other Cutmasters, comes standard with the 1Torch® providing you with the well known comfort and reliability famous throughout the industry.

- Heavy fabrication
- Manufacturing
- 4-Year warranty power supply
- 1-Year warranty torch



PERFORMANCE

- Maximum Cut - 2" (50 mm)
- Recommended Cut - 1 1/4" (30 mm)
- Pierce Rating - 1" (25 mm)
- Max Amperage Output - 120A
- Output Power - 15.4 kW

DIMENSIONS

- 12" W x 15" H x 30" D
(305 mm x 381 mm x 762 mm)

WEIGHT

- 62 lbs (28.1 kg)

TORCH

- SL100
- Air Pressure - 70 psi (4.8 bar)
- 7.5 cfm (212 l/m)

INPUT VOLTAGE

- 208-230/460V, 1/3 ph, 50/60 Hz
- 400V, 3 ph, 50 Hz
- 600V, 3 ph, 50/60 Hz

DUTY CYCLE (@ 40° C)

- 80% @ 120A
- 100% @ 100A

AMPERAGE DRAW

- 120A @ 230V, 1 ph
- 56A @ 230V, 3 ph
- 37A @ 460V, 3 ph

PART NO.	TORCH	INPUT VOLTAGE
1-1330-1	SL100® 75° hand torch 20 ft (6.1 m) lead	208-230V, 1 Phase
1-1330-2	SL100 75° hand torch 20 ft (6.1 m) lead	460V, 3 Phase
1-1330-5	SL100 75° hand torch 20 ft (6.1 m) lead	600V, 3 Phase
1-1331-1	SL100 75° hand torch 50 ft (15.2 m) lead	208-230V, 1 Phase
1-1331-2	SL100 75° hand torch 50 ft (15.2 m) lead	460V, 3 Phase
1-1331-5	SL100 75° hand torch 50 ft (15.2 m) lead	600V, 3 Phase

Cutmaster Systems include: Power supply, torch, spare parts kit, input power cable, work cable and clamp, and an instructional DVD.
See pages 14-15 for accessories and page 13 for torch consumable parts.

PART NO.	TORCH	INPUT VOLTAGE
1-1730-1	SL100® 75° hand torch 20 ft (6.1 m) lead	208-230V, 1 Phase
1-1730-2	SL100 75° hand torch 20 ft (6.1 m) lead	460V, 3 Phase
1-1730-5	SL100 75° hand torch 20 ft (6.1 m) lead	600V, 3 Phase
1-1731-1	SL100 75° hand torch 50 ft (15.2 m) lead	208-230V, 1 Phase
1-1731-2	SL100 75° hand torch 50 ft (15.2 m) lead	460V, 3 Phase
1-1731-5	SL100 75° hand torch 50 ft (15.2 m) lead	600V, 3 Phase

Cutmaster Systems include: Power supply, torch, spare parts kit, input power cable, work cable and clamp, and an instructional DVD.
See pages 14-15 for accessories and page 13 for torch consumable parts.

CUTMASTER TRUE SERIES SELECTION GUIDE



	CUTMASTER 40		CUTMASTER 58			CUTMASTER 60i		
Maximum Output	40 Amps		60 Amps			60 Amps		
Recommended Cut	1/2" (12.7 mm) @ 230V 1/4" (6 mm) @ 120V		5/8" (16 mm)			5/8" (16 mm)		
Maximum Cut	1" (25 mm) @ 230V 5/8" (15 mm) @ 120V		1" (25 mm)			1 1/2" (38 mm)		
Pierce Rating	1/2" (12.7 mm) @ 230V 1/4" (6 mm) @ 120V		1/2" (13 mm)			5/8" (16 mm)		
Input Voltage	120-230V, 1 ph, 50/60 Hz		208-230/460V, 1/3 ph, 50/60 Hz 400V, 3 ph, 50 Hz 600V, 3 ph, 50/60 Hz (Canada)			208-230/460V ±10, 1/3 ph, 50/60 Hz 400V, 3 ph, 50 Hz		
Duty Cycle (@ 40° C)	40% @ 40A		40% @ 60 A 60% @ 50 A 100% @ 30 A			50% @ 60A 60% @ 50A 100% @ 40A		
Amperage Draw	Volts	1 Phase	Volts	1 Phase	3 Phase	Volts	1 Phase	3 Phase
	120V	29A	230V	45A	24A	230V	39A	23A
	230V	26A	480V		16A	480V	19A	11A
Work Cable	10' (3 m)		20' (6.1 m)			20' (6.1 m)		
Dimensions	H	12.6" (320 mm)	15" (381 mm)			14.15" (359 mm)		
	W	7.9" (200 mm)	12" (305 mm)			7.85" (199 mm)		
	D	18.1" (460 mm)	24" (610 mm)			21.12" (593 mm)		
Weight	22 lbs (10kg)		43 lbs (19.5 kg)			37 lbs (16.8kg)		
Warranty (Parts & Labor)	4 Year Power Supply, 1 year Torch		4 Year Power Supply, 1 year Torch			4 Year Power Supply, 1 year Torch		
Certifications	IP-23C, CSA, NTRL/C		IP-23C, CSA, NTRL/C			IP-23C, CSA, NTRL/C		
TORCH CONFIGURATION								
Hand Torch (Supplied)	SL60 w/ATC 75° hand torch		SL60QD w/ATC, 75° hand torch			SL60QD w/ATC, 75° hand torch		
Mechanized Torch	–					SL100 (Optional)		
Air Pressure	75 psi (5.2 bar)					75 psi (5.2 bar)		
Flow	3.2 cfm (91 l/m) with V2S**					6.7 cfm (190 l/m)		
ORDERING INFORMATION								
SL60-20 ft (6.1 m) lead	1-4000-1		1-5830-V**			–		
SL60-20 ft (6.1 m) lead	–		1-58301-V**			1-5630-V***		
SL60-50 ft (15.2 m) lead	–		–			1-5631-V***		
SL100-20 ft (6.1 m) lead	–		–			–		
SL100-50 ft (15.2 m) lead	–		–			–		

Systems include: power supply, hand torch, spare parts kit, input power cable (selected systems), work cable, and clamp

*Subject to change without notice

**V (Pre-configured Voltage): 1 = 208/230V, 1 phase; 2 = 460V, 3 Phase; 5 = 600V, 3 Phase



CUTMASTER 82			CUTMASTER 102			CUTMASTER 152		
80 Amps			100 Amps			120 Amps		
3/4" (20 mm)			1" (25 mm)			1 1/4" (30 mm)		
1 1/2" (40 mm)			1 3/4" (45 mm)			2" (50 mm)		
5/8" (15 mm)			3/4" (20 mm)			1" (25 mm)		
208-230/460V, 1/3 ph, 50/60 Hz 400V, 3 ph, 50 Hz 600V, 3 ph, 50/60 Hz			208-230/460V, 1/3 ph, 50/60 Hz 400V, 3 ph, 50 Hz 600V, 3 ph, 50/60 Hz			208-230/460V, 1/3 ph, 50/60 Hz 400V, 3 ph, 50 Hz 600V, 3 ph, 50/60 Hz		
40% @ 80A 60% @ 65A 100% @ 55A			60% @ 100A 80% @ 80A 100% @ 70A			- 80% @ 120A 100% @ 100A		
Volts	1 Phase	3 Phase	Volts	1 Phase	3 Phase	Volts	1 Phase	3 Phase
230V	72A	39A	230V	95V	45A	230V	118A	56A
480V	44A	21A	480V	60A	29A	480V	76A	37A
20' (6.1 m)			20' (6.1 m)			20' (6.1 m)		
15" (381 mm) 12" (305 mm) 24" (610 mm)			15" (381 mm) 12" (305 mm) 30" (762 mm)			15" (381 mm) 12" (305 mm) 30" (762 mm)		
43 lbs (19.5kg)			62 lbs (28.1 kg)			62 lbs (28.1 kg)		
4 Year Power Supply, 1 year Torch			4 Year Power Supply, 1 year Torch			4 Year Power Supply, 1 year Torch		
IP-23C, CSA, NTRL/C			IP-23C, CSA, NTRL/C			IP-23C, CSA, NTRL/C		
SL60 w/ATC, 75° hand torch			SL100 w/ATC, 75° hand torch					
SL100 (Optional)			SL100 (Optional)			SL100 (Optional)		
70 psi (4.8 bar)			70 psi (4.8 bar)			70 psi (4.8 bar)		
6.7 cfm (190 l/m)			7.5 cfm (212 l/m)			7.5 cfm (212 l/m)		
-			-			-		
1-1130-V***			-			-		
1-1131-V***			-			-		
-			1-1330-V***			1-1730-V***		
-			1-1331-V***			1-1731-V***		

Note: All Cutmaster TRUE Series systems are designed to accept multi-voltage input; they can be ordered pre-configured for the voltage most likely to be used. The "-1" and "-2" configurations of catalog numbers listed are set up so that the machine is ordered in the configuration most often used by the individual customer, so that they do not need to add or change input power cable to operate upon receipt of the machine.

AIRCUT™ 15C—LIGHT DUTY

Portable plasma cutting system with built-in air compressor. This unit comes standard with a built-in air compressor. Weighs only 29 lbs (13.2 kg), almost 50% lighter than the competition. Superior cutting capacity - 1/8" (3 mm) recommended cut, 3/16" (5 mm) maximum capability. Easy to use - 120V, 15 Amp plug standard. Plug it in anywhere! Faster cut speeds - 25% more cutting power provides 25% faster cut speeds than the competition.

- Internal air compressor
- Lightweight
- 1/8" (3 mm) recommended cut capacity
- Easy to use
- Faster cut speeds



PERFORMANCE

- Maximum Cut - 3/16" (5 mm)
- Recommended Cut - 1/8" (3 mm)
- Output Current - 15 amps Fixed

DIMENSIONS

- 6.5" W x 9.5" H x 18" D
(165 mm x 241 mm x 457 mm)

WEIGHT

- 29 lbs (13.2 kg)
- Ship Weight - 38 lbs (17.2 kg)

INPUT VOLTAGE

- 120V (± 10%), Single Phase, 60 Hz., 15A

DUTY CYCLE

- 35% @ 15A

SPECIFICATIONS

- Gas Type - Air from Built-In Air Compressor
- Work Cable - 19.5 ft (5.9 m)
- Input Cable - 8.5 ft (2.6 m)
- Pilot - CD Start
- Control - Hand Torch Switch

TORCH SPECIFICATIONS

- PCH-10
- Hand 70°
- 20' (6.1 m) Leads

DRAG-GUN® PLUS—MEDIUM DUTY

Portable plasma cutting system with built-in air compressor and humidity removal kit. 1/2" (12 mm) cut capacity. Maximum arc visibility for excellent operator control. Condenser minimizes (condenses) moisture content in the air supply!

- Internal air compressor
- 1/2" (12 mm) cut capacity
- Convenience and portability
- Maximum arc visibility for excellent operator control
- Condenser minimizes moisture content in the air supply!



PERFORMANCE

- Maximum Cut - 1/2" (12 mm)
- Output Current - 15-35 amps,
- Continuously Variable

DIMENSIONS

- 10.5" W x 11" H x 15.5" D
(267 mm x 279 mm x 394 mm)

WEIGHT

- 76 lbs (34.5 kg)
- Ship Weight - 85 lbs (38.6 kg)

INPUT VOLTAGE

- 230V (± 10%), Single Phase, 50/60 Hz., 18A

DUTY CYCLE

- 35% @ 35 amps

SPECIFICATIONS

- Gas Type - Air from Built-In Air Compressor
- Work Cable - 20 ft (6.1 m)
- Input Cable - 10 ft (3 m)
- Pilot - CD Start
- Control - Hand Torch Switch
- Panel Indicators - AC, Over Temp, Air, Latch

TORCH SPECIFICATIONS

- SureLok® PCH-42ER
- Hand 70°
- 20' (6.1 m) Leads

PART NO.	DESCRIPTION
SYSTEM	
1-1110-1	PCH-10 70° Hand Torch 20 ft (6.1 m) Leads, 120V 1 Phase
REPLACEMENT TORCH AND LEADS PACKAGES	
2-1020	PCH-10 70° Torch / 20' (6.1 m) Leads
ACCESSORIES	
7-8910	Cutting Guide Kit
9-1260	20 ft (6.1 m) Leather Leads Cover
TORCH CONSUMABLES	
9-6003	Shield Cup
9-6099	Tip
9-6007	Gas Distributor
9-6006	Electrode

PART NO.	DESCRIPTION
SYSTEM	
1-3835-1F	SureLok® PCH-42ER 70° Torch / 20' (6.1m) Leads, 230V 50/60 Hz. 1 Phase (includes power supply, torch & leads, input power cable & plug, work cable & clamp, 3 tips, 2 electrodes, operators manual)
REPLACEMENT TORCH AND LEADS PACKAGES	
7-4220	SureLok® PCH-42ER 70° Torch / 20 ft (6.1m) Leads
ACCESSORIES	
7-7501	Radius/Roller Cutting Guide Kit
9-1260	20 ft (6.1m) Leather Leads Cover
TORCH CONSUMABLES	
9-6003	Shield Cup
9-6501	Tip - 40A
9-6542	SureLok Electrode - 40A
9-6507	Gas Distributor
9-8442	Torch Head

SELECTING THE RIGHT TORCH PACKAGE FOR YOUR NEEDS...

STEP 1 Torch and Leads Selection

STEP 1 gives you all the information to select the right torch.

- Manual Torch (pg 9)
- Mechanized & Automation Torch (pg 10)

Select: ■ Torch – Standard or Shielded
 ■ Connection – RPT (O2B) or ATC
 ■ Lead Length
 ■ ATC Lead Extensions (Optional, w/ ATC only)
 ■ Remote Control Options (Mechanized or Automation only)

STEP 2 Adapter Kit Selection

STEP 2 (pg 12)
 Select the appropriate Adapter Kit. If you selected a torch with the ATC connection, you will also need an ATC Receptacle Adapter shown in STEP 1 (pgs 9 or 10).

STEP 3 Spare Parts Selection

STEP 3 (pg. 13)
 Select spare parts or parts kit that best suits your needs.

STEP 1 Torch and Lead Selection

1TORCH SL60

LIGHT/MEDIUM DUTY TORCH (20-80 AMPS)

As a replacement (RPT™) torch, the 1Torch® has the ability to work on the majority of plasma power supplies on the market today. Its unique design allows the 1Torch the ability to work with high frequency, touch, CD, and moving parts (blow back) start systems.



STANDARD RPT (O2B)
TORCH CONNECTION

A	PART NO.		DESCRIPTION
	75°	90°	TORCH & LEADS
	7-5200	7-5261	SL60, 20' (6.1 m)
	7-5201	7-5262	SL60, 50' (15.2 m)

ATC® TORCH CONNECTION

B	PART NO.		DESCRIPTION
	75°	90°	TORCH & LEADS
	7-5204	7-5260	SL60, 20' (6.1 m)
	7-5205	7-5260 ¹	SL60, 50' (15.2 m) ¹

ATC ADAPTER KIT

B	PART NO.		DESCRIPTION
	ATC RECEPTACLE ADAPTER		
	7-5207 ³		ATC Receptacle Connector
	ATC LEAD EXTENSIONS: OPTIONAL (FOR ATC CONNECTIONS ONLY)		
	7-7544		15' (4.5 m) Lead Extension
	7-7545		25' (7.6 m) Lead Extension
	7-7552		50' (15.2 m) Lead Extension

¹ Use 7-5260 with 7-7545 for a SL60 45' (13.7 m)

² Use 7-5263 with 7-7545 for a SL100 45' (13.7 m)

1TORCH SL100

MEDIUM/HEAVY DUTY TORCH (20-120 AMPS)

Hand Torches offer ergonomic handles with easy-to-use trigger release that provides comfort during prolonged use. 75° and 90° heads offer operators a choice of positions.



STANDARD RPT (O2B)
TORCH CONNECTION

A	PART NO.		DESCRIPTION
	75°	90°	TORCH & LEADS
	7-5202	7-5264	SL100, 20' (6.1 m)
	7-5203	7-5265	SL100, 50' (15.2 m)

ATC TORCH CONNECTION

B	PART NO.		DESCRIPTION
	75°	90°	TORCH & LEADS
	7-5206	7-5263	SL100, 20' (6.1 m)
	7-5208	7-5263 ²	SL100, 50' (15.2 m) ²

ATC ADAPTER KIT

B	PART NO.		DESCRIPTION
	ATC RECEPTACLE ADAPTER		
	7-5207 ³		ATC Receptacle Connector
	ATC LEAD EXTENSIONS: OPTIONAL (FOR ATC CONNECTIONS ONLY)		
	7-7544		15' (4.5 m) Lead Extension
	7-7545		25' (7.6 m) Lead Extension
	7-7552		50' (15.2 m) Lead Extension

³ This receptacle adapter is required for each power supply using an ATC torch connection. This is connected to the torch adapter kit specific to each power supply. Total lead length including torch and extension(s), should not exceed the maximum length specified by the power supply manufacturer.

1TORCH MECHANIZED SL100, AUTOMATION SL100SV MEDIUM/HEAVY DUTY TORCH (20-120 AMPS)

Only 34 consumable parts cover the full range of cutting and gouging up to 120 amps. Inventorying parts for a fleet of plasma units can be simplified using the 1Torch.



SL100 Mechanized



SL100SV Automation
(For Cutmaster® A-Series Only)

STEP

Torch
and
Lead
Selection

1

STANDARD



SHIELDED*



STANDARD RPT (O2B) TORCH CONNECTION

A	PART NO.	DESCRIPTION
	SL100 MECHANIZED TORCH & LEADS (Fiberglass Tube w/Rack)	
	7-5209	SL100, 180°, 25' (7.6 m)
	7-5210	SL100, 180°, 50' (15.2 m)
	Remote Interface Adapter 7-3452 included with torch.	

STANDARD RPT (O2B) TORCH CONNECTION

A	PART NO.	DESCRIPTION
	SL100 MECHANIZED TORCH & LEADS (Fiberglass Tube w/Rack)	
	7-5211	SL100, 180°, 25' (7.6 m)
	7-5212	SL100, 180°, 50' (15.2 m)
	Remote Interface Adapter 7-3452 included with torch.	

ATC TORCH CONNECTION



B	PART NO.		DESCRIPTION
	SL100 Mechanized Torch	SL100SV® Automated Torch ¹	TORCH & LEADS (For Cutmaster Series Only. Does Not Work With Lead Extensions)
	7-5213	–	SL100, 180°, 5' (1.5 m)
	7-5214	–	SL100, 180°, 10' (3.0 m)
	7-5215	7-4001	SL100, 180°, 25' (7.6 m)
	–	7-4002	SL100, 180°, 35' (10.6 m)
	7-5216	7-4003	SL100, 180°, 50' (15.2 m)
	–	7-4004	SL100, 180°, 75' (22.8 m)
	–	7-4005	SL100, 180°, 100' (30.4 m)

ATC TORCH CONNECTION



B	PART NO.	DESCRIPTION
	SL100 MECHANIZED TORCH & LEADS - SHIELDED (Fiberglass Tube w/Rack)	
	7-5219	SL100 ¹ , 180°, 5' (1.5 m)
	7-5220	SL100 ¹ , 180°, 10' (3.0 m)
	7-5221	SL100 ¹ , 180°, 25' (7.6 m)
	7-5222	SL100 ¹ , 180°, 50' (15.2 m)

ATC ADAPTER KIT



B	PART NO.	DESCRIPTION
	ATC RECEPTACLE ADAPTER	
	7-5207	ATC Receptacle Connector ²
	ATC LEAD EXTENSIONS³: OPTIONAL (FOR ATC CONNECTIONS ONLY)	
	7-7544	15' (4.5 m) Lead Extension
	7-7545	25' (7.6 m) Lead Extension
	7-7552	50' (15.2 m) Lead Extension
	MECHANIZED REMOTE CONTROLS	
	7-3474	ATC Remote Interface Kit - Provides an optional remote interface connection to allow the use of any remote control. Can be placed anywhere between the ATC Torch connection or Lead Extension & ATC Adapter
	7-3452	Remote Pendant Interface Kit - Interfaces into any torch adapter kit to allow the use of a Remote Pendant (7-3460) on any Mechanized torch system.
	7-3460	Remote Pendant Control
	9-8312	25' (7.6 m) CNC Remote Cable
	9-8313	50' (15.2 m) CNC Remote Cable

ATC ADAPTER KIT



B	PART NO.	DESCRIPTION
	ATC RECEPTACLE ADAPTER	
	7-3472	ATC Receptacle Connector ²
	MECHANIZED REMOTE CONTROLS	
	7-3452	Remote Pendant Interface Kit - Interfaces into any torch adapter kit to allow the use of a Remote Pendant (7-3460) on any Mechanized torch system.
	7-3460	Remote Pendant Control
	9-8312	25' (7.6 m) CNC Remote Cable
	9-8313	50' (15.2 m) CNC Remote Cable

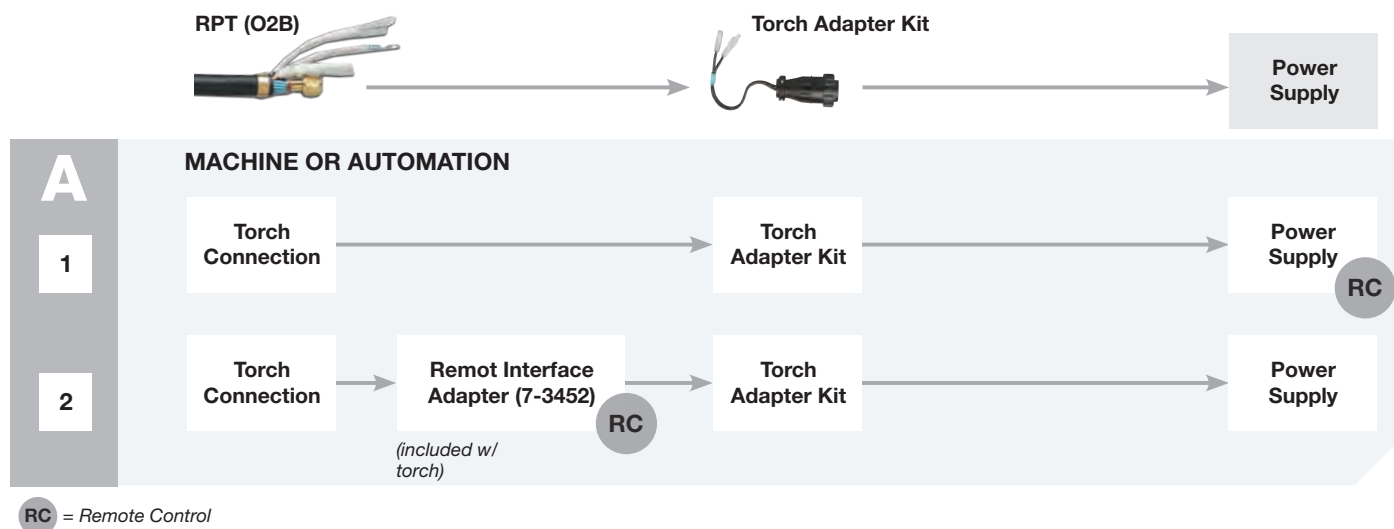
- 1 It is only recommended to install shielded torches onto a shielded ready system. Installation onto a non-shielded system may result in reduced performance. Installing a shielded torch on to a shielded system requires the shield connections to be terminated to a proper shield termination or earth ground point.
- 2 This receptacle adapter is required for each power supply using an ATC torch connection. This is connected to the torch adapter kit specific to each power supply. Total lead length including torch and extension(s), should not exceed the maximum length specified by the power supply manufacturer.
- 3 ATC Lead Extensions are for use on hand and mechanized torches only. Will not work with automated torches.

TORCH CONNECTION OPTIONS—REMOTE CONTROL

The diagrams below show the different torch connections with remote connection options.

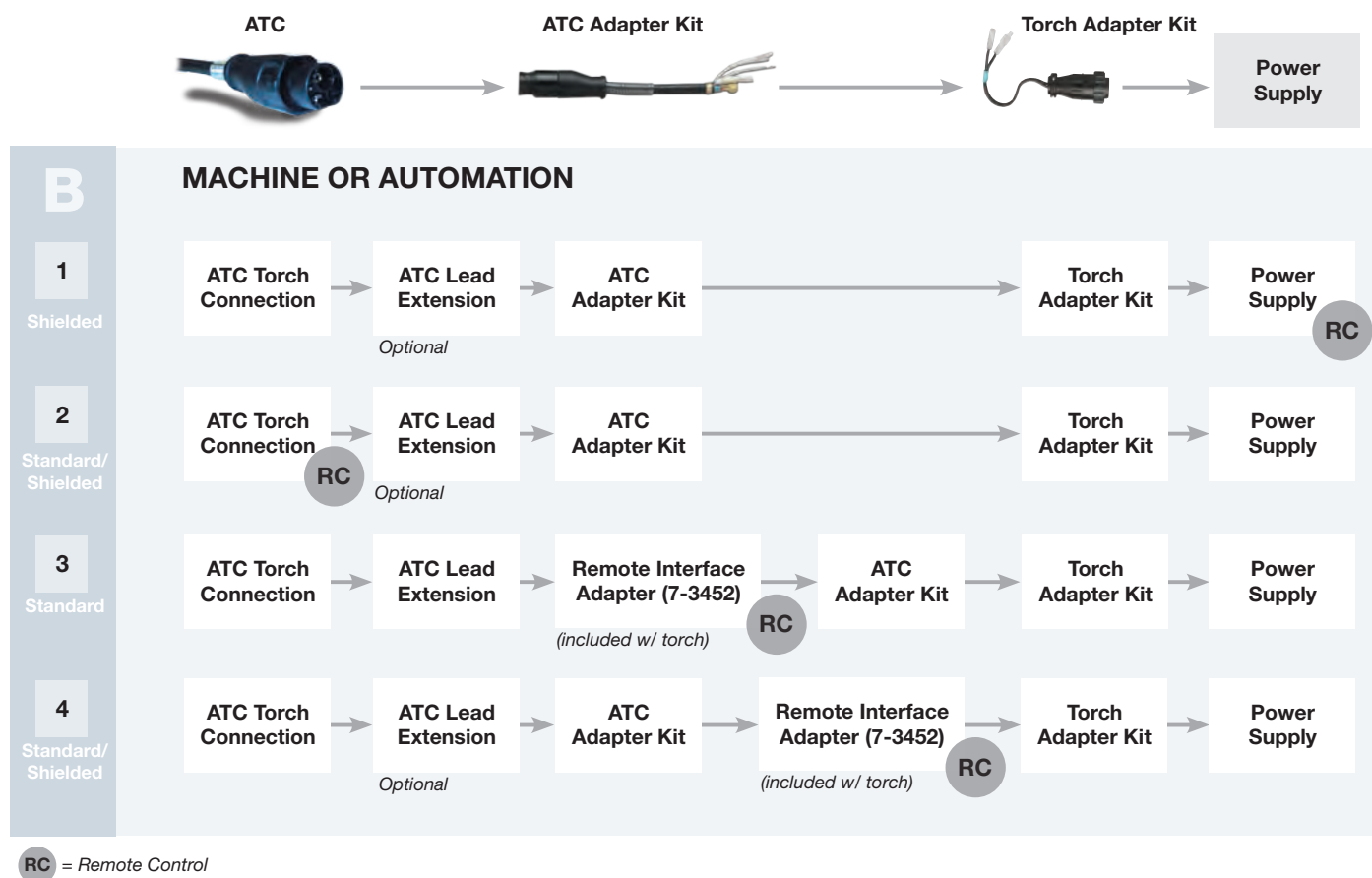
Standard RPT Connection

(Note: Remote control is either 7-3460 Remote Pendant Control or is user supplied.)



ATC TORCH CONNECTION

(Note: Remote control is either 7-3460 Remote Pendant Control or is user supplied.)



PLASMA TORCH ADAPTER KITS SELECTION

Listed below is the Adapter Kit selection charts for the Hand 1Torch® RPT® torch.

STEP Adapter Kit Selection 2

MANUFACTURER	POWER SUPPLY MODEL	PART NO.
ESAB®	PCM-SMi, 500i, 625i, PCS-43	7-3425
	PCS-53, 80, 90	7-3435
	ESP-100i	7-3426
	PCM-750i, 875, 1000i, 1125	7-3429
	Sidewinder 30,55,105	7-3434
	Powercut® 650	7-3464
	Powercut 875, 1125	7-3465
	Powercut 1250, 1500	7-3462
HARRIS®	System 50, 65 and 100	7-3439
HOBART®	Smoothcut II 35A, 60A, and 100A	7-3427
HYPERTHERM®	Max® 40, HT® 40 (H/F Start) Max 70, 80, 100 (w/ & w/o Q.D.)	7-3430
	Max 42*, 43*, 40cs*, Powermax® 600*, 800*, 900* (w/ Q.D.)	7-3454
	Powermax 1100*	7-3455
	Powermax 1000*, 1250*	7-3461
	Max 40cs* (w/o Q.D.)	7-3476
	Powermax 380*	7-3477
	Powermax 600* (w/o Q.D.)	7-3480
	Powermax 800*, 900* (w/o Q.D.)	7-3481
	Powermax 1650*	7-3483
	Powermax 350*	7-3484
L TEC®	PCM-31, SMi, 32i/34i, VPi PCM-500i, 625i, PCS-80i	7-3425
	PCM-50A, 70, 80, 52i/54i, 82i/84i ESP-100i, PCM-50, PCM-100 (Single Gas) PCM-50, P-MC-100 (Dual Gas)	7-3426
	PCS-40	7-3430
	PCM-750i, 1000i	7-3435
	PCM-101	7-3436

MANUFACTURER	POWER SUPPLY MODEL	PART NO.
LINCOLN®	Procut 60	7-3431
MILLER®	Plazcut 60†/Zipcut	7-3432
	Spectrum® 250D, 500, 750	7-3433
	Spectrum 700, 1000,1250,PLUS	7-3430
	Spectrum 3080*	7-3456
	Spectrum 650*, 701*, 2050*	7-3457
	Spectrum 300*	7-3476
	Spectrum 375*	7-3477
	Spectrum 625*	7-3478
OTHERS	OTC®: D-5000 and D-7000 PTRON®: P-TRON 75 and 100 Daihen®: MRAT-70 Multiquip®: PCX50SS	7-3437
SMITH	Powerpro 55 and 75	7-3487
THERMAL DYNAMICS	PAK® 3XR, 5XT, 6XR, 7XR, 625XR, 750XR	7-3446
	PAK 8XR, 10XR, 1000XR, 1250XR, PakMaster® 75, 100	7-3434
	PakMaster 50XL/XLP, 75XL/XLP, 100XL/XLP Cutmaster® 50, 75, 80XL, 100	7-3447
	PakMaster 25, 38XL, EconoPAK® 25, Drag-Gun® 38, PAK 4Xi, 6Xi, PAK 2XT, Dynapak® 110	7-3443
	PakMaster 50 w/Smart Torch (Q.D)	7-3445
	EconoPAK 50	7-3449
	EconoPAK 100	7-3450
	PAK 5	7-3444
	PAK 10	7-3436

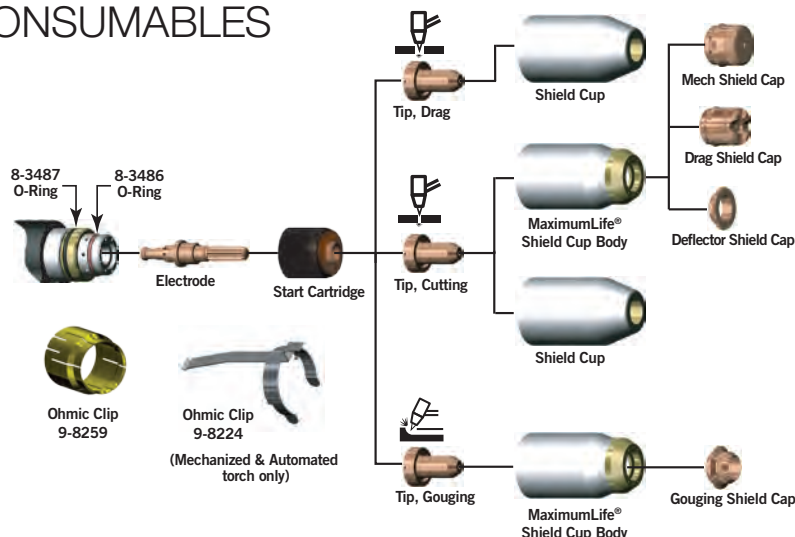
* Non-HF Systems.

† The Miller PlazCut machines with Serial Numbers beginning JE are not compatible with 1Torch® RPT Torches.

NOTES: Each Adapter Kit includes connection fitting, electrical connectors and installation instruction sheets for the selected power supply.

ESAB, L-TEC and Power-Cut are registered trademarks of ESAB AB; LINCOLN and Pro-Cut are registered trademarks of Lincoln Electric Co.; HYPERTHERM, Max and powermax are registered trademarks of Hypertherm, Inc.; MILLER and Spectrum are registered trademarks of Miller Electric Mfg. Co.; none of the afore mentioned registered trademarks are in any way affiliated with Thermal Dynamics or Victor Technologies; Thermal Dynamics, PAK, Cutmaster, PakMaster, EconoPAK, Dynapak and Drag-Gun are registered trademarks of Victor Technologies International, Inc.

1TORCH CONSUMABLES



STEP Spare Parts Selection 3

DESCRIPTION	PART NO.
O-Ring	8-3487
O-Ring	8-3486
O-Ring Lubricant	8-4025
Electrode	9-8215
Start Cartridge	9-8213
Heavy Duty Start Cartridge (Non HF Systems only)	9-8277
Drag	Tip, 20A, Drag
	Tip, 30A, Drag
	Tip, 40A, Drag
	Tip, 60A, Drag
	Tip, 40A, Standoff
Standoff	Tip, 50/55A, Standoff
	Tip, 60A, Standoff
	Tip, 70A, Standoff
	Tip, 80A, Standoff
	Tip, 90/100A, Standoff
	Tip, 120A, Standoff
	Tip, A, Gouging
Gouge	Tip, B, Gouging
	Tip, C, Gouging
	Tip, D, Gouging
	Tip, E, Gouging
Shield Cup	9-8218
Shield Cup Body, MaximumLife®	9-8237

DESCRIPTION	PART NO.
Drag	Shield Cap, Drag, 40A
	Shield Cap, Drag, 50-60A
	Shield Cap, Drag, 70-100A
	Shield Cap, Drag, 120A
Mechanized	Shield Cap, Mechanized, 40A
	Shield Cap, Mechanized, 50-60A
	Shield Cap, Mechanized, 70-100A
	Shield Cap, Mechanized, 120A
Deflector	Shield Cap, Deflector
Gouging	Shield Cap, Gouging
Ohmic Clip	9-8224
Ohmic clip for manual torches	9-8259
Spare Parts Kit, 30 Amp	5-2550
Spare Parts Kit, 40 Amp	5-2551
Spare Parts Kit, 50/55 Amp	5-2552
Spare Parts Kit, 60 Amp	5-2553
Spare Parts Kit, 70 Amp	5-2554
Spare Parts Kit, 80 Amp	5-2555
Spare Parts Kit, 90/100 Amp	5-2556

Note: All Spare Parts Kits include ten (10) Tips, five (5) Electrodes and one (1) Start Cartridge.

1TORCH CONSUMABLES PARTS APPLICATION GUIDE

For SL60® / SL100® Manual Cutting and Gouging Operations.



DRAG TIP CUTTING The preferred method of cutting light gauge metal up to 1/4" (6 mm) thickness. Produces the best cut quality narrowest kerf width, fastest cutting speeds, and with little to no distortion. Traditional drag cutting was limited to 40 Amps or less; now with Thermal Dynamics TRUE Cut Drag Tip Series™ technology, it is possible to cut up to 60 Amps. For best results, use the Shield Cup with the torch tip in direct contact with the work (up to 60 Amps).



DRAG SHIELD CUTTING This is an operator-friendly method of cutting between 70 to 120 Amps while maintaining a constant standoff distance. For metal thickness greater than 1/4" (6 mm), simply drag the shield cap in contact with the work piece. Use the shield cup body with the appropriate drag shield cap matching the current level being used. This method is not recommended for cutting light-gauge sheet metal.



STANDOFF CUTTING The preferred method of cutting metal thicker than 1/4" (6 mm) and at current levels above 60 Amps. Provides maximum visibility and accessibility. Shield cup for 'standoff' cutting (with the torch tip 1/8" (3 mm) to 1/4" (6 mm) from the work piece). Use the shield cup body together with the deflector for extended parts life and improved resistance to reflect heat. This combination provides cutting results similar to the single piece shield cup, as well as easy changeover to gouging or drag shield cutting.



GOUGING A simple method of metal removal by angling the torch to a lead angle of 35°-45°, and using a gouging tip. While maintaining a constant standoff distance, this allows for only a partial penetration into the work, thus removing metal from the surface. The amount of current, travel speed, standoff distance, lead angle, and tip size will determine the amount of material removed and the profile of the gouge. You can use the shield cup body with either the gouging shield cap or the shield deflector. Also, you can use the single piece shield cup.

GOUGING PROFILES

	Output Range	Depth	Width
Tip A	40A (MAX)	Shallow	Narrow
Tip B	50-100A	Deep	Narrow
Tip C	60-120A	Moderate	Moderate
Tip D	60-120A	Shallow	Wide
Tip E	120A	Moderate	Wide

CUTTING GUIDE KIT (DELUXE)

PART NO. 7-8910

Cuts circles from 21/8" (54 mm) to 41 1/2" (1054 mm) with proper cutting attachments. This kit includes easy add-on attachments to fit most Victor® Thermal Dynamics® torches for precise straight line, circle cutting and beveling. Includes Carrying Case, Radius/Roller Kit (7-7501), Circle Cutting Guide (7-3291), Magnetic Pivot, Suction Pivot.



CIRCLE CUTTING GUIDE KIT

PART NO. 7-3291

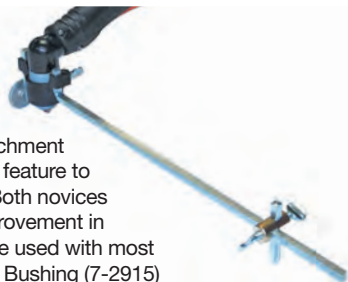
Cuts 2-1/8" (54 mm) to 27 3/4" (705 mm) circles (using magnetic attachment) when cutting or beveling is required. For use with most Victor Thermal Dynamics torches. Guide shown with optional pivot (7-3148).



RADIUS / ROLLER CUTTING GUIDE KIT

PART NO. 7-7501

This easy-to-use guide cuts circles from 3" (76 mm) up to 28 3/4" (730 mm). Maintains a consistent height off the work piece whether you are using the circle cutting attachment for cutting circles or the roller guide feature to improve your straight-line cutting. Both novices and experts will see noticeable improvement in quality, speed, and parts life. Can be used with most Thermal Dynamics torches. Cutting Bushing (7-2915) for use with the SL40™ torch.



STRAIGHT LINE CUTTING GUIDE

PART NO. 7-8911

Introducing a new cutting guide accessory suitable for all hand torches. This versatile, straight line cutter is for hand held systems and it cuts vertical, 90° or bevel cuts. Its consistent standoff improves cut quality & maximizes overall performance. Produces more efficient straight line cuts. Lightweight, minimum set up time, and no power required. Magnetic mounts ensure placement and ease of use. Optional suction plates available for non-magnetic applications (i.e. aluminum and stainless steel). The Cutting Guide Kit includes: 4 ft (1.2 m) standard rail Torch Holder and Bushing Heavy Duty Magnets (2 ea.) Slide Assembly Wheels and Fasteners. Optional 4 ft (1.2 m) extensions (9-7971) available.



STANDOFF CUTTING GUIDES

PART NO. 9-0090

(Cutmaster 42)

The Standoff Cutting Guide is now available for the SL40™ torch, in addition to the SL60® and SL100® torches.

PART NO. 9-0090 SL40 Torch

PART NO. 9-8251 For use with 40A tips on the SL60/SL100 Torch

PART NO. 9-8281 For use with 60-100A tips on the SL60/SL100 Torch



CUTTING GUIDE BUSHING

PART NO. 7-2915

Designed to fit the SL40 torch specific to the Cutmaster 42 system. This bushing accommodates the use of the SL40 torch with the cutting guides.



LEATHER LEAD COVERS

PART NO. 9-1258 15 ft (4.6 m)

PART NO. 9-1260 20 ft (6.1 m)

PART NO. 9-1270 25 ft (7.6 m)

PART NO. 9-1280 50 ft (15.2 m)

These lead covers are suitable for both 1Torch® and SureLok® leads. Snaps make it easy to install. For wider torches, consider snapping two covers together width wise.



TRIGGER GUARD GUIDES

1 Torch (SL60 and SL100)

PART NO. 9-8420 Short Trigger Guard

These guards offer additional protection from accidental activation or damage to the torch switch.

REMOTE PENDANT CONTROL

PART NO. 7-3460

20 ft (6.1 m)

Remote Pendant Control for your mechanized application.



HAND PENDANT EXTENSION

PART NO. 7-7744

25 ft (7.6 m)

MECHPAK MECHANIZED PACKAGE

PART NO. 9-7725, 9-7750

The MechPak mechanized package is now available for Cutmaster 60i, making it easy to hook up to a cutting table for semiautomatic cutting processes. MechPak comes with everything you need to get started, including an SL100 mechanized torch (25 ft. or 50 ft.), remote pendant, lead with ATC connection, and consumables.



ATC® LEAD EXTENSIONS

7-7544 15 ft (4.6 m)

7-7545 25 ft (7.6 m)

7-7552 50 ft (15.2 m)

Available for any system using hand or mechanized 1Torch® with ATC Quick Disconnect. Leads Extensions enable you to customize your lead length to suit the cutting job.



AIR FILTER / AIR FILTER KITS

For improved consumable parts life and overall performance, Thermal Dynamics recommends Air Filter Kits be used on all plasma cutting systems.

SINGLE STAGE AIR FILTER KIT

PART NO. 7-7507

(Filter Body 9-7740, Hose 9-7742, Filter Element 9-7741)

For use with shop compressed air systems, this in-line filter will not allow moisture or water to pass through the filter element even if it becomes completely saturated. This hi-tech filter element actually blocks the absorption of water to increase performance and improve consumable parts life.



TWO STAGE AIR FILTER

PART NO. 9-9387

(First Stage Element 9-1021, Second Stage Element 9-1022)

The Two Stage Air Filter will remove moisture and contaminants from the air stream when using compressed air. The filter is capable of filtering to at least 5 microns. The filter assembly is pre-assembled and need only be installed on the power supply.



MULTI-PURPOSE CART

PART NO. 7-8888

Designed for most portable manual cutting systems such as the PakMaster® or Cutmaster®, or any similar sized systems.

This rugged steel cart has easy rolling 8" (203 mm) diameter wheels along with 3" (76 mm) front mounted casters. This cart also serves as an excellent showroom display stand.



WELDING GLOVES

PART NO. 9-1250



PLASMA CUTTING TECHNIQUES DVD

PART NO. 9-1253



AUTOMATION ACCESSORIES

AUTOMATION INTERFACE KIT

PART NO. 9-8311

For Cutmaster TRUE™ Series (52, 82, 102, and 152) This kit adds a divided low volt output for height controls that can use 50:1 arc voltage. Required for the Thermal Dynamics® SC-11 height control.

CNC HARNESS CABLE

9-9385

CNC INTERFACE CABLE FOR "START/STOP" AND "OK TO MOVE" ONLY:

9-1008 25 ft (7.6 m)

9-1010 35 ft (10.6 m)

9-1011 50 ft (15.2 m)

PINION ASSEMBLY

PART NO. 7-2827

1-3/8" (35 mm) Diameter



PAK® 200i—MANUAL AIR-PLASMA CUTTING & GOUGING SYSTEM

200 amps of Cutting Power – This unit is capable of hand cutting at 200 amps with the ability to cut up to 2-3/4" (70 mm) on Mild Steel. At full output this unit will cut 10 ipm (254 mm/min) on 2" (51 mm) carbon steel.

100% Duty Cycle – This machine offers 100% duty cycle at full output.

Dual Gas Capability – The dual gas system ensures superior quality and performance on ferrous and non-ferrous materials. (Plasma Gas: Air, ArH₂ Secondary Gas: Air, N₂)

High Gouging Removal Rate – With the ability to remove up to 25 lbs (11.3 kg) of carbon steel per hour.

Tip Saver for Optimal Tip Life – This ensures that any accidental contact between the tip and the work at high power levels will not damage the tip.

PERFORMANCE

- Output Current - 35-200 amps
- Output Power - 40 kW
- Recommended Cut - 1-1/2" (40 mm)
- Max Cut - 2 3/4" (70 mm)
- Pierce Rating - 1 1/4" (32 mm)

DIMENSIONS

- 48" H x 27.5" W x 40.6" D
(1219 x 698 x 1031 mm)

WEIGHT

- 490 lbs w/o torch (222 kg)
- Fully Assembled Power Supply

INPUT VOLTS

- 380-415V, 3 ph, 50/60 Hz
- 400V CE, 3 ph, 50/60 Hz
- 480V, 3 ph, 50/60 Hz

Contact Thermal Dynamics for additional information on 240V & 600V input voltage requirements.

DUTY CYCLE

- 100% @ 200 amps

AMPERAGE DRAW

- 60A @ 380V
- 57A @ 400V
- 47A @ 480V

SPECIFICATIONS

- Plasma Gas - Air, ArH₂, N₂
- Secondary Gas - Air, N₂

TORCH

- PCH200 Hand/Machine

WARRANTY

- 2 Year parts & Labor Power Supply
- 1 Year Parts & Labor Torch

APPLICATIONS INCLUDE:

- General fabrication of Carbon Steel, Stainless Steel and Aluminum
- Over the road transport trailers
- Railroad maintenance
- Vessel manufacturing
- Pipe beveling and fabrication
- Petroleum refineries
- Foundries
- Chemical plants
- Mining operations
- Ship building



TORCH CONSUMABLE PARTS

DESCRIPTION	PART NO.	DESCRIPTION	PART NO.
SHIELD CUPS		GAS DISTRIBUTORS	
Shield Cup, Standard	32-1325	Gas Distributor, Cutting	32-1315
Crown Shield Cup (Manual Cutting)	32-1326	Gas Distributor, Gouging	32-1509
Shield Cup (Gouging)	32-1527	ELECTRODES	
TIPS		Electrode, Air, Cutting	32-1310
Tip, 200A	32-1323	Electrode, Multi-Gas Cutting	32-1311
Tip, 150A	32-1330	Electrode, Air, Gouging	32-1504
Tip, 70A	32-1321	Electrode, ArH ₂ , Gouging	32-1505
Tip, 55A	32-1322	OTHER	
Tip, 35A	32-1320	Coolant Tube Extension, Gouging	32-1502
Tip (0.110) Gouging	32-1512	Wrench	20-0001
Tip (0.125) Gouging	32-1513	O-Ring Lubricant	8-4025
Tip (0.156) Gouging	32-1514	Parts Box	9-4173
Tip (0.171) Gouging	32-1515		

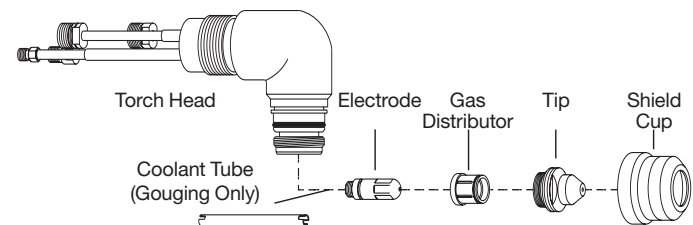
POWER SUPPLY & LEADS

DESCRIPTION	PART NO.		
POWER SUPPLY & LEADS	480V	400V	400V CE
PAK 200i - 70° Torch / 25' (7.6 m) Leads	1-2239	1-2245	1-2251
PAK 200i - 70° Torch / 50' (15.2 m) Leads	1-2240	1-2246	1-2252
PAK 200i - 90° Torch / 25' (7.6 m) Leads	1-2241	1-2247	1-2253
PAK 200i - 90° Torch / 50' (15.2 m) Leads	1-2242	1-2248	1-2254
PAK 200i - 180° Torch / 25' (7.6 m) Leads	1-2243	1-2249	1-2255
PAK 200i - 180° Torch / 50' (15.2 m) Leads	1-2244	1-2250	1-2256

All manual systems include Power Supply, Torch and Leads, Spare Parts Kit, 25' (7.6 m) Work Cable & Clamp, and Torch Coolant.

TORCH & LEADS PACKAGES

DESCRIPTION	PART NO.
PCH-200 / 70° / 25' (7.6 m) Leads	2-0009
PCH-200 / 70° / 50' (15.2 m) Leads	2-0010
PCH-200 / 70° / 100' (30.5 m) Leads	2-0011
PCH-200 / 90° / 25' (7.6 m) Leads	2-0012
PCH-200 / 90° / 50' (15.2 m) Leads	2-0013
PCH-200 / 90° / 100' (30.5 m) Leads	2-0014
PCM-200 / 180° / 25' (7.6 m) Leads	2-0015
PCM-200 / 180° / 50' (15.2 m) Leads	2-0016
PCM-200 / 180° / 100' (30.5 m) Leads	2-0017



ACCESSORIES / OPTIONS

DESCRIPTION	PART NO.
Torch Guide / Circle Cutting Attachment	7-7505
Remote Pendant Control	7-3460
Wheel Kit	9-7378

LIMITED WARRANTY: ESAB warrants that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the ESAB products as stated below, ESAB shall, upon notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with ESAB's specifications, instructions, recommendations and recognized standard industry practice, and not subject to abuse, misuse, neglect, alteration, accident, improper care and/or maintenance including lack of lubrication and protection from the elements, use of non ESAB genuine parts including consumables; will correct such defects by suitable repair or replacement, at ESAB's sole option, of any components or parts of the product determined by ESAB to be defective.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY: ESAB shall not under any circumstances be liable for special or consequential damages, such as, but not limited to, damage or loss of purchased or replacement goods, or claims of customers of distributor (hereinafter "Purchaser") for service interruption.

The remedies of the Purchaser set forth herein are exclusive and the liability of ESAB with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by ESAB whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

THIS WARRANTY BECOMES INVALID IF REPLACEMENT PARTS OR ACCESSORIES ARE USED WHICH MAY IMPAIR THE SAFETY OR PERFORMANCE OF ANY ESAB PRODUCT.

THIS WARRANTY IS INVALID IF THE PRODUCT IS SOLD BY NON-AUTHORIZED PERSONS.

The warranty is effective for the time stated below beginning on the date that the authorized distributor delivers the products to the Purchaser. Notwithstanding the foregoing, in no event shall the warranty period extend more than the time stated plus 1 year from the date ESAB delivered the product to the authorized distributor.

4 YEARS PARTS AND LABOR

Cutmaster® TRUE™ (Power Source)

2 YEARS PARTS AND LABOR

Drag-Gun® Plus, PAK® 200i

1 YEAR PARTS AND LABOR UNLESS SPECIFIED

AirCut® 15C, CutSkill® units (Power Source),
Stand Off Controls
1Torch®, SureLok®, XTR, XT / XT-301 and Maximizer® torches

180 DAYS PARTS AND LABOR UNLESS SPECIFIED

All Other "Torch and Leads" Packages

90 DAYS PARTS / NO LABOR

Replacement Repair Parts

ESAB limited warranty shall not apply to: Consumable Parts for MIG, TIG, Plasma welding, Plasma cutting and Oxyfuel torches, O-rings, fuses, filters or other parts that fail due to normal wear.

* Warranty repairs or replacement claims under this limited warranty must be submitted by an authorized ESAB repair facility within thirty (30) days of the repair.

* No employee, agent, or representative of ESAB is authorized to change this warranty in any way or grant any other warranty, and ESAB shall not be bound by any such attempt. Correction of non-conformities, in the manner and time provided herein, constitutes fulfillment of ESAB's obligations to purchaser with respect to the product.

* This warranty is void, and seller bears no liability hereunder, if purchaser used replacement parts or accessories which, in ESAB's sole judgment, impaired the safety or performance of any ESAB product. Purchaser's rights under this warranty are void if the product is sold to purchaser by unauthorized persons.

UNRIVALED SERVICE AND SUPPORT.

Cutmaster, like all ESAB products, is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with the maintenance and upgrading of your machines. And our products are backed with the most comprehensive warranty in the business.

With ESAB, you can be sure you purchased a machine that will meet your needs today and in the future. Product and process training is also available. Ask your ESAB sales representative or distributor for a complete ESAB solution.

4-Year Warranty.

Thermal Dynamics' 60-year history and industry-leading service and support means that if you do need help, you'll be protected by the most comprehensive warranty in the business.



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