

THERMAL DYNAMICS®

A THERMADYNE® Company

1Torch™

with SURELOK® Technology



**One Torch
for Virtually Any
Plasma Cutting
System!**



Total Plasma Cutting Flexibility

**Available With Our ATC™
Quick Change Connector!**



The Revolution in Plasma Torches Has Begun

1Torch™

with SURELOK® Technology



Introducing the First Universal Plasma Torch!

The 1Torch™ RPT torch is the first plasma cutting torch that performs with virtually all plasma cutting power supplies. The 1Torch works with high frequency start systems, CD start systems, touch start systems and moving parts (*blow back*) start systems. Install the 1Torch on your current plasma power supply and you immediately benefit from the latest in high performance torch technology available today.

Important Features Include:

New Ergonomic Torch Handle

With a new, innovative, easy-to-use torch trigger release, encapsulated protected torch head and precisely engineered grip, the 1Torch RPT torch is both easy and comfortable to use.



Extended or Protected Consumable Parts

We designed our consumable parts to adapt to your cutting style. By simply changing the shield cup, you can either have:

- An Extended Tip for greater visibility and control and precision drag cutting at low power.
- A Protected Tip for on-the-plate drag cutting at high power up to 100 amps.

One Year Torch & Leads Warranty

Precision Engineered Torch Consumable Parts

The 1Torch RPT torch introduces a completely new tip technology. Plasma gas management is an integral part of the tip design. Each tip is uniquely tuned to optimize cut performance at its rated cutting current. The result is precision gas management, longer consumable parts life and better cut performance across the entire range of 1Torch tips.

Lower Consumable Parts Inventories and Costs

The total of 20 consumable parts used with the 1Torch RPT torch can replace over 575 different consumable parts used over a broad range of plasma systems.

New, Improved Leads

1Torch Leads are lightweight, extremely flexible and tough – the ideal combination of durability and ease of use.

ATC™ (Advanced Torch Connector) Quick Disconnect Option

Our new quick disconnect design brings extra flexibility to any plasma system.

Imagine being able to change out a damaged plasma cutting torch, easily convert from a hand to a machine torch operation, or simply put on a different size torch all in the matter of a few seconds and not have to use any tools to complete the task!



ATC™ Lead Extensions for Improved Versatility

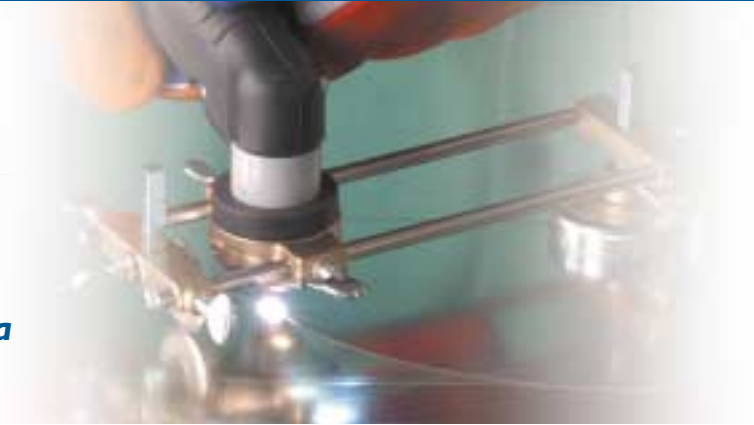
You can add substantial flexibility and versatility to your cutting operations with the use of Lead Extensions. Quick Disconnect Lead Extensions, in 15 ft. and 25 ft. lengths, make it easy and efficient to add or subtract lead length according to the job requirements.

1Torch™ RPT torch and ATC™ connector are patent pending.

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One Torch for Virtually Any Plasma Cutting System!



Selecting the Right Torch Package for Your Needs . . .

It's as easy as 1, 2, 3!

1 Torch and Leads Selection

Chart 1 gives you all the information you'll need to select the right torch. Torches are grouped into two sections – Hand and Machine. Find the appropriate section, decide whether the standard RPT connection or the ATC™ Torch Connection is right for you, then select the torch with the desired amperage range and leads length.

2 Adapter Kit Selection

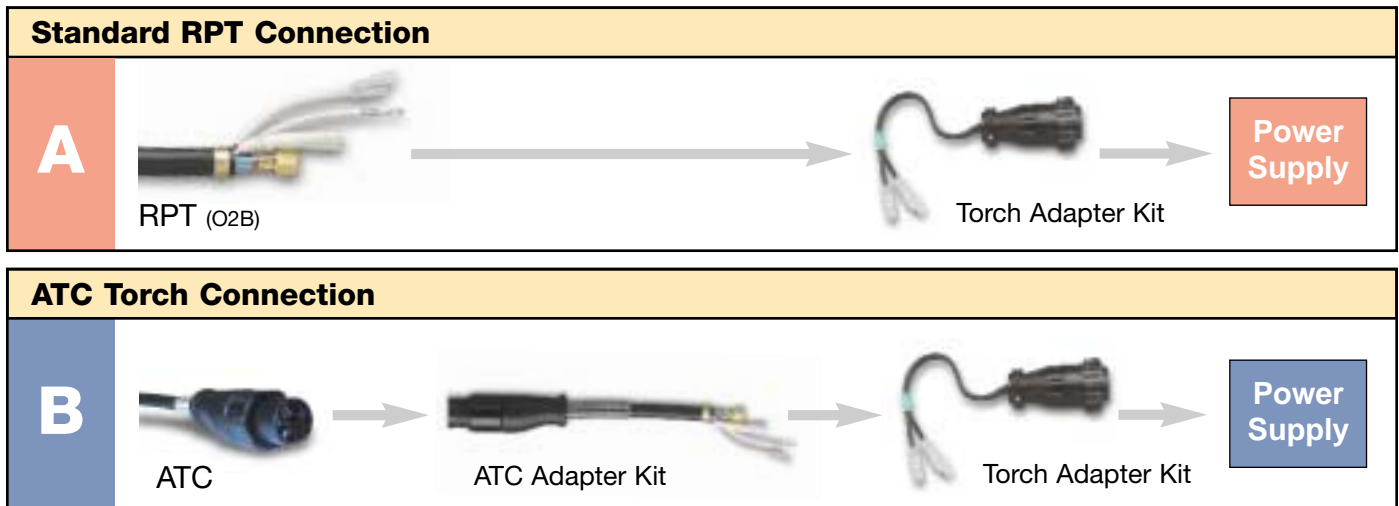
Select the appropriate Adapter Kit from Chart 2. If you selected a torch with the ATC Connection, you will also need an ATC Receptacle Adapter (see Chart 1).

3 Spare Parts Selection

From Chart 3, select an RPT Spare Parts Kit or specific consumable parts that best suit your cutting requirements.

Torch Connection Options

The diagram below shows the differences between the Standard RPT and the ATC Torch connections.



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Torch and Lead Selection

Listed below are the Torch and Lead selection charts for both the Hand and Machine 1Torch RPT torch.



ORDERING INFORMATION

Hand Torches

SL60™

Light/Medium Duty Torch
20-60 Amps

SL100™

Medium/Heavy Duty Torch
30-100 Amps






Machine Torches


SL100™



Medium/Heavy Duty Torch
30-100 Amps



CAT NO.	DESCRIPTION
A	Standard RPT (O2B) Torch Connection 
Torch & Leads	
SL60 Hand Torch (30-60 Amps)	
7-5200	SL60, 75°, 20' (6.1m) Torch/Leads
7-5201	SL60, 75°, 50' (15.2m) Torch/Leads
SL100 Hand Torch (40-100 Amps)	
7-5202	SL100, 75°, 20' (6.1m) Torch/Leads
7-5203	SL100, 75°, 50' (15.2m) Torch/Leads

B	ATC™ Torch Connection 
Torch & Leads	
SL60 Hand Torch w/ ATC (30-60 Amps)	
7-5204	*SL60, 75°, 20' (6.1m) Torch/Leads
7-5205	*SL60, 75°, 50' (15.2m) Torch/Leads
SL100 Hand Torch w/ ATC (40-100 Amps)	
7-5206	*SL100, 75°, 20' (6.1m) Torch/Leads
7-5208	*SL100, 75°, 50' (15.2m) Torch/Leads
ATC™ Adapter Kit	
ATC Receptacle Adapter	
7-5207	ATC Receptacle Connector 
* 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.	

CAT NO.	DESCRIPTION
A	Standard RPT (O2B) Torch Connection 
Torch & Leads	
SL100 Machine Torch - Unshielded (Fiberglass Tube w/ Rack)	
7-5209	SL100, 180°, 25' (7.6m) Torch/Leads
7-5210	SL100, 180°, 50' (15.2m) Torch/Leads
SL100 Machine Torch - Shielded (Fiberglass Tube w/ Rack)	
7-5211	SL100, 180°, 25' (7.6m) Torch/Leads
7-5212	SL100, 180°, 50' (15.2m) Torch/Leads

B	ATC™ Torch Connection 
Torch & Leads	
SL100 Machine Torch - Unshielded (Fiberglass Tube w/ Rack)	
7-5213	*SL100, 180°, 5' (1.5m) Torch/Leads
7-5214	*SL100, 180°, 10' (3.0m) Torch/Leads
7-5215	*SL100, 180°, 25' (7.6m) Torch/Leads
7-5216	*SL100, 180°, 50' (15.2m) Torch/Leads
SL100 Machine Torch - Shielded (Fiberglass Tube w/ Rack)	
7-5219	*SL100, 180°, 5' (1.5m) Torch/Leads
7-5220	*SL100, 180°, 10' (3.0m) Torch/Leads
7-5221	*SL100, 180°, 25' (7.6m) Torch/Leads
7-5222	*SL100, 180°, 50' (15.2m) Torch/Leads
ATC™ Adapter Kit	
ATC Receptacle Adapter	
7-5207	ATC Receptacle Connector 
7-3472	ATC Receptacle Adapter - Shielded
* 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.	

NOTES: (1) Lead Extensions are available for torch w/ ATC connections. See accessory section.

(2) See accessories section for selection of Remote Pendant Control.

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Adapter Kit Selection

Listed below is the Adapter Kit selection charts for both the Hand and Machine 1Torch RPT torch.



Torch Adapter Kits

The model of the plasma cutting system must be known to determine the adapter kit required.

Manufacturer Power Supply Model	Catalog Number	Manufacturer Power Supply Model	Catalog Number
CEBORA®		MILLER®	
50	7-3438	*Plazcut 60/Zipcut	7-3432
DAIHEN®		Spectrum 250D, 500, 750	7-3433
SC-60P	7-3432	Spectrum 700, 1000, 1250, PLUS	7-3430
MRAT-70	7-3437	Spectrum 3080	7-3456
ESAB® (yellow)		Spectrum 701, 2050	7-3457
PCM-SMi, 500i, 625i, PCS-43	7-3425	MULTIQUIP MQ®	
PCS-53, 80, 90	7-3435	PCX50SS	7-3437
ESP-100i	7-3426	NU-TECSYS®	
PCM-750i, 875, 1000i, 1125	7-3429	Omnicut 375	7-3438
Sidewinder 30, 55, 105	7-3434	PCA-30/60, 65	7-3441
HARRIS®		OTC	
System 50, 65, 100	7-3439	Panasonic D-5000, D-7000	7-3437
HOBART®		P-TRON®	
Smoothcut 30, 625	7-3425	P-Tron 75, 100	7-3437
Smoothcut 50 (single gas), 100	7-3426	POWCON®	
Smoothcut 50 (dual gas)	7-3428	Starcut	7-3430
Smoothcut II 35A, 60A, 100A	7-3427	SMITH®	
Fab Shop	7-3440	SPC-30, 20-50, 40-80	7-3442
HYPERTHERM®		THERMAL DYNAMICS®	
Max® 40, HT® 40 (H/F Start)	7-3430	PAK® 3XR, 5XT, 5XR, 6XR, 7XR, 625XR, 750XR	7-3446
Max® 70, Max® 80, Max® 100 w/wo Q.D.		PAK® 8XR, 10XR, 1000XR, 1250XR, PakMaster™ 75, 100	7-3434
Max® 42, 43, 40cs	7-3454	PakMaster™ 50XL/XLP, 75XL/XLP, 100XL/XLP CUTMASTER™ 50, 75, 80XL, 100	7-3447
powermax® 600, 800, 900		PakMaster™ 25, 38XL, EconoPAK® 25	7-3443
powermax® 1100	7-3455	Drag-Gun® 38, PAK® 4Xi, 6Xi	
powermax® 1000, 1250	7-3461	PAK® 2XT-220, Dynapak® 110	
INNERLOGIC®		PakMaster™ 50 w/ Smart Torch (Q.D.)	7-3445
SR-45i	7-3451	EconoPAK® 50	7-3449
LINCOLN®		EconoPAK® 100	7-3450
Pro-Cut 60	7-3431	PAK® 5	7-3444
L TEC® (green)		PAK® 10	7-3436
PCM-31, SMi, 32i/34i, VPi	7-3425	Mechanized Torch Adapters	
PCM-500i, 625i, PCS-80i		Remote Interface Kit (TDC Units Only) Unshielded/Shielded Leads	7-3448
PCM-50A, 70, 80, 52i/54i, 82i/84i	7-3426	Required for use with CNC interface (14p CPC connection). Can only be used on TDC PAK-XR's, PakMaster XL's, XLP's & CutMaster series units with 14p CPC Connection.	
ESP-100i, PCM-50, PCM-100 (Single Gas)		Remote Pendant Interface Kit (All Units) Unshielded Leads	7-3452
PCM-50, PCM-100 (Dual Gas)		Interfaces into any torch adapter kit to allow the use of a Remote Pendant (7-3460) on any Mechanized torch system using RPT (O2B) connection.	
PCS-40	7-3430	Remote Pendant Adapter Kit - ATC (All Units) Unshielded	7-3470
PCM-750i, 1000i	7-3435	Interfaces into any Non-Shielded ATC Mechanized torch to allow the use of a Remote Pendant (7-3460).	
PCM-101	7-3436	Remote Pendant Adapter Kit - ATC (All Units) Shielded	7-3471
PowerCut 875, 1125, 1500	7-3462	Interfaces into any Shielded ATC Mechanized torch to allow the use of a Remote Pendant (7-3460).	

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

NOTES: The maximum current output of some of the Power Supplies listed can exceed the maximum rating of the torch. Do not operate the selected RPT Replacement Torch at current levels above the rating of the torch. Each Adapter Kit includes connection fitting, electrical connectors and installation instruction sheets for the selected power supply.

CEBORA is a registered trademark of Cebora S.p.A.; DAIHEN is a registered trademark of Daihen Inc.; ESAB and L-TEC are registered trademarks of ESAB AB; HARRIS and LINCOLN are registered trademarks of Lincoln Electric Co.; HOBART is a registered trademark of Hobart Brothers Co.; HYPERTHERM, Max and powermax are registered trademarks of Hypertherm, Inc.; MILLER and Spectrum are registered trademarks of Miller Electric Mfg. Co.; MULTIQUIP is a registered trademark of Multiquip, Inc.; NU-TECSYS is a registered trademark of Nu-Tecsys, Inc.; P-TRON is a registered trademark of P-Tron Plasma/Tech Systems; SMITH is a registered trademark of Smith Equipment Co.; INNERLOGIC is a trademark of Innerlogic; THERMAL DYNAMICS, PAK, CUTMASTER, PakMaster, EconoPAK, Dynapak and Drag-Gun are registered trademarks of Thermal Dynamics Corp.

ORDERING INFORMATION

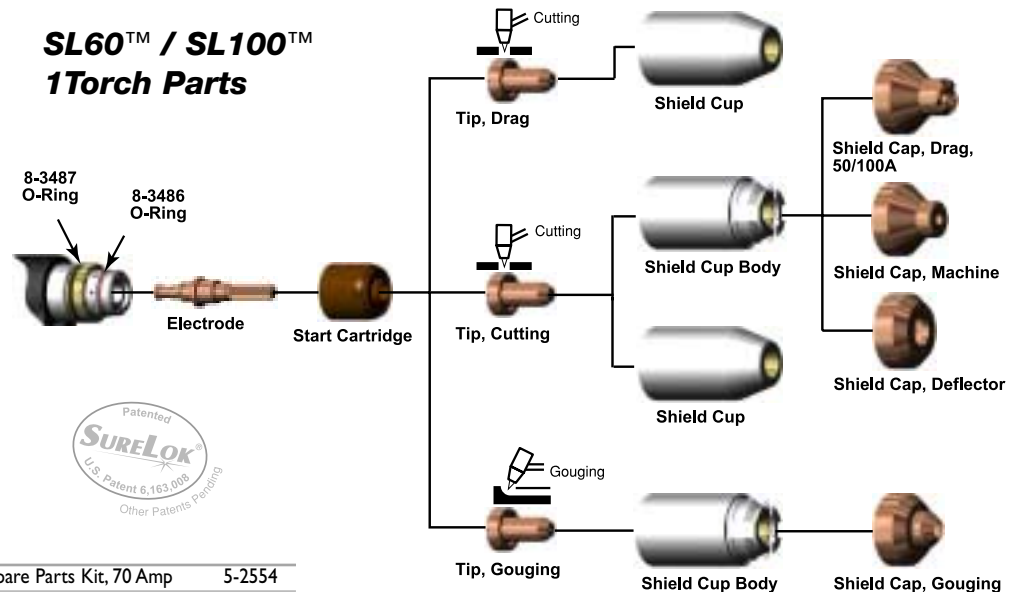
Spare Parts Selection

Description Cat. No. Description Cat. No.

1TORCH™ CONSUMABLES / PARTS

O-Ring	8-3487
O-Ring	8-3486
Electrode, MaximumLife®	9-8215
Start Cartridge	9-8213
Tip, 20A, Drag	9-8205
Tip, 30A, Drag	9-8206
Tip, 40A, Drag	9-8207
Tip, 40A, Cutting	9-8208
Tip, 50/55A, Cutting	9-8209
Tip, 60A, Cutting	9-8210
Tip, 70A, Cutting	9-8231
Tip, 80A, Cutting	9-8211
Tip, 90/100A, Cutting	9-8212
Tip, 40A, Gouging	9-8225
Tip, 60A, Gouging	9-8226
Tip, 80A, Gouging	9-8227
Tip, 100A, Gouging	9-8228
Shield Cup	9-8218
Shield Cup Body	9-8217
Shield Cap, Drag, 50-100A	9-8216
Shield Cap, Machine	9-8222
Shield Cap, Deflector	9-8223
Shield Cap, Gouging	9-8221
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

**SL60™ / SL100™
1Torch Parts**



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.)

Product Description Catalog No.

ACCESSORIES

ATC™ Leads Extensions*	
15 ft. (4.6m)	7-7544
25 ft. (7.6m)	7-7545
50 ft. (15.2m)	7-7552
25 ft. (7.6m) - Shielded†	4-7854
50 ft. (15.2m) - Shielded†	4-7855

Remote Pendant Control, 20 ft. (6.1 m)	7-3460
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For use with
Machine Torch



Product Description Catalog No.

ACCESSORIES (cont.)

Single Stage Air Filter	7-7507
Leather Leads Cover	
20 ft. (6.1m)	9-1260
25 ft. (7.6m)	9-1270
50 ft. (15.2m)	9-1280



Straight Line Cutting Guide	7-8911
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Product Description Catalog No.

ACCESSORIES (cont.)

Cutting Guide Kits

Circle Guide Kit		7-3291
Roller/ Radius Kit		7-7501
Deluxe Kit		7-8910

NOTES: *Total lead length including torch and extension(s), should not exceed the maximum length specified by the manufacturer. †Required for use with shield torch leads.

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