# THERMAL DYNAMICS.





Total Plasma
Cutting Flexibility

Available With Our ATC® Quick Change Connector!



**Automated Systems Replacement Plasma Cutting Torch** 

# 17orch®

with SureLok® Technology

## 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.



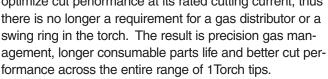
## Important Features Include:

#### Phenolic Position Tube

With a new, innovative, easy-to-remove 32 pitch gear rack, the phenolic positioning tube can easily be adapted to any 1-3/8" torch holder. If manual torch position is required, the use of the gear rack will complete the task. Simply remove the gear rack from the positioning tube if not needed.



The 1Torch RPT torch introduces a completely new tip technology. Total gas management is an integral part of the tip design. Each tip is uniquely tuned to optimize cut performance at its rated cutting current, thus



#### **Extended or Protected Consumable Parts**

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

- An Extended Tip for greater visibility, improved control and precision cutting at any power level.
- A Protected Tip for improved parts life

#### **Improved Leads**

1Torch Unshielded Leads on the SL100 mechanized torches are lightweight, extremely flexible and tough the ideal combination of durability and ease of use. Shielded leads are available for use on dedicated shielded systems.

### ATC® (Advanced Torch Connector) Quick **Disconnect Option**

Our 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 machine to a hand 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., 25 ft. and 50 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.



## Selecting the Right Torch Package for Your Needs . . .



## **Torch and Leads Selection**

Chart 1 (pg. 4) gives you all the information to select the right torch. Select the following:

- Torch Standard or Shielded
- Connection RPT® (O2B) or ATC®
- Lead Length
- ATC Lead Extensions (optional)
- Remote Control Options

Note: Lead extensions can only be used with ATC connections.



## **Adapter Kit Selection**

Select the appropriate Adapter Kit from Chart 2 (pg. 5). If you selected a torch with the ATC Connection, you will also need an ATC Receptacle Adapter (see Chart 1).

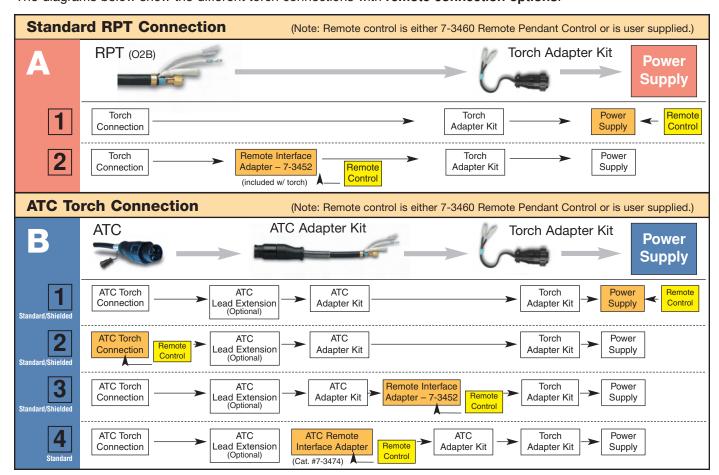


## **Spare Parts Selection**

From Chart 3 (pg. 6), select an RPT Spare Parts Kit or specific consumable parts that best suit your cutting requirements.

## **Torch Connection Options**

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







## **Torch and Lead Selection**

Listed below are the Torch and Lead selection charts for the SL100<sup>®</sup> Machine 1Torch RPT<sup>®</sup> torch.



## **Ordering Information**

## **Machine Torch**

#### **SL100**

Medium/Heavy Duty Torch 30-100 Amps



## Standard

CAT NO. DESCRIPTION

Standard RPT (O2B)
Torch Connection



#### **Torch & Leads**

SL100 Machine Torch (Fiberglass Tube w/ Rack)

7-5209 SL100, 180°, 25' (7.6m) Torch/Leads 7-5210 SL100, 180°, 50' (15.2m) Torch/Leads Remote Interface Adapter 7-3452 included with torch.

ATC®
Torch Connection



#### **Torch & Leads**

SL100 Machine Torch w/ ATC (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

#### **ATC Adapter Kit**

#### **ATC Adapter**

9-5652

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.

#### ATC Lead Extensions<sup>2</sup>

#### **Lead Extensions - Standard**

7-7544	15' (4.5m) Lead Extension
7-7545	25' (7.6m) Lead Extension
7-7552	50' (15.2m) Lead Extension

#### **Mechanized Remote Controls**

#### **Remote Interface Connectors**

7-3474	ATC Remote Interface Adapter Provides an optional remote interface connection to allow the use of a remote control. Can be placed anywhere between the ATC Torch con- tion or Lead Extension and 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
0.5651	25 ft CNC Pomoto Cablo

50 ft. CNC Remote Cable

## Shielded<sup>1</sup>

CAT NO. DESCRIPTION

# Standard RPT (02B) Torch Connection



#### **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 Remote Interface Adapter 7-3452 included with torch

# B ATC Torch Connection



#### **Torch & Leads**

SL100 Machine Torch w/ ATC - Shielded (Fiberglass Tube w/ Rack)

7-5219	SL100 <sup>1</sup> , 180°, 5' (1.5m) Torch/Leads
7-5220	SL1001, 180°, 10' (3.0m) Torch/Leads
7-5221	SL1001, 180°, 25' (7.6m) Torch/Leads
7-5222	SL1001, 180°, 50' (15.2m) Torch/Leads

#### **ATC Adapter Kit**

#### ATC Adapter - Shielded

7-3472 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.

#### ATC Lead Extensions<sup>2</sup>

#### **Lead Extensions - Standard**

4-7854 25' (7.6m) Lead Extension - Shielded 4-7855 50' (15.2m) Lead Extension - Shielded

#### **Mechanized Remote Options**

#### **Remote Interface Connectors**

7-345	52	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.
7-346	60	Remote Pendant Control
9-565	51	25 ft. CNC Remote Cable
9-565	52	50 ft. CNC Remote Cable

NOTES: (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) Lead extensions are available for torches with ATC connections. It is suggested that the total lead length including torch and extension(s) not exceed the maximum lead length specified by the power supply manufacture





with SureLok® Technology

# **Adapter Kit Selection**

Listed below is the Adapter Kit selection charts for the SL100® Machine 1Torch RPT® torch.

# **Torch Adapter Kits**

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

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Manufacturer Power Supply Model	Catalog Number	Manufacturer Power Supply Model	Catalog Number		
<b>ESAB</b> <sup>®</sup> (yellow)		LINCOLN®			
PCS-53, 80, 90	7-3435	Pro-Cut® 60	7-3431		
ESP-100i	7-3426	MILLER®			
PCM-750i, 875, 1000i, 1125	7-3429		7.0400		
Sidewinder 55, 105	7-3434	Spectrum® 750	7-3433		
Powercut® 650	7-3464	Spectrum® 700, 1000, 1250, PLUS	7-3430		
Powercut® 875, 1125	7-3465	Spectrum® 3080*	7-3456		
Powercut® 1250, 1500	7-3462	Spectrum® 650*, 701*, 2050*	7-3457		
HOBART®		Spectrum® 625*	7-3478		
Smoothcut 50 (single gas), 100	7-3426	отс			
Smoothcut 50 (dual gas)	7-3428	Panasonic® D-5000, D-7000	7-3437		
Smoothcut II 60A, 100A	7-3427	,			
Cybercut 2050*	7-3457	P-TRON®			
HYPERTHERM®		P-Tron 75, 100	7-3437		
Max® 40, HT® 40 (H/F Start) 7-340		SMITH®			
Max <sup>®</sup> 70, Max <sup>®</sup> 80, Max <sup>®</sup> 100 w/ & w/o Q.D.		Powerpro 55, 75	7-3487		
Max® 42*, 43*, 40cs*	7-3454	SPC 40-80	7-3442		
powermax® 600*, 800*, 900* w/ Q.D.		CNAD CNA			
powermax® 1100*	7-3455	SNAP-ON®			
powermax® 1000*, 1250*	7-3461	YA-3440	7-3430		
Max® 40cs* (w/o Q.D.)	7-3476	YA-5550*, YA-5550A*	7-3476		
powermax® 600* w/o Q.D. 7-3		THERMAL DYNAMICS®			
powermax® 800*, 900* w/o Q.D.	7-3481	PAK <sup>®</sup> 5XR, 6XR, 7XR, 625XR, 750XR	7-3446		
powermax® 1650*	7-3483	PAK® 8XR, 10XR, 1000XR, 1250XR,			
L TEC® (green)	L TEC® (green)		7-3434		
PCS-80i 7-3425		PakMaster® 75, 100	7-3447		
PCM-50A, 70, 80, 52i/54i, 82i/84i	7-3426				
ESP-100i, PCM-50, PCM-100 (Single Gas)		CUTMASTER® 50, 75, 80XL, 100			
PCM-50, PCM-100 (Dual Gas)		EconoPAK <sup>®</sup> 100	7-3450		
PCM-750i, 1000i	7-3435	PAK <sup>®</sup> 5	7-3444		
PCM-101 7-3436		PAK <sup>®</sup> 10	7-3436		



#### **WARNING:**

Mechanized/Automated torches are rated for 100% Duty Cycle. Many of the power supplies listed have a significantly less duty cycle rating. Operation exceeding the duty cycle rating of the power supply could result in damage to the power supply.

\*Non-HF Systems.

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

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## **Ordering Information**

# **Spare Parts Selection**

Description	Cat. No.		
1Torch® Consuma	bles / I	Parts	
0-Ring	8-3487		
0-Ring	8-3486	SL100 <sup>®</sup> 1Torch Mechanized Torch Parts	
Electrode, MaximumLife®	9-8215		
Start Cartridge	9-8213	Patenteri	
Tip, 40A, Cutting	9-8208		
Tip, 50/55A, Cutting	9-8209	SureLov	h Shield Cap
Tip, 60A, Cutting	9-8210		ii Oilicia Oap
Tip, 70A, Cutting	9-8231	8-3487	
Tip, 80A, Cutting	9-8211	O-Ring 8-3486 Other Paterior	
Tip, 90/100A, Cutting	9-8212	O-Ring  MaximumLife®  Shield Cup Body	
Tip, A, (40A) Gouging	9-8225		tor Shield Cap
Tip, B, Gouging	9-8226	Tip, Cutting	tor Siliela Cap
Tip, C, Gouging	9-8227		
Tip, D, Gouging	9-8228	Electrode	
Shield Cup	9-8218	Start Cartridge	
Shield Cup Body, MaximumLife®	9-8237	Shield Cup	
Shield Cap, Mach, 50-60A	9-8238		
Shield Cap, Mach, 70-100A	9-8239		
Shield Cap, Deflector	9-8243		
Shield Cap, Gouging	9-8241		
Ohmic Clip	9-8224		
Spare Parts Kit, 40 Amp	5-2551	Ohmic Clip Tip, Gouging Gougin	ng Shield Cap
Spare Parts Kit, 50/55 Amp	5-2552	MaximumLife® Shield Cup Body	
Spare Parts Kit, 60 Amp	5-2553	Silleld Cup Body	
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.	Product Description	Catalog No.	Product Description	Catalog No.	
Accessories						
Single Stage Air Filter	7-7507	Leather Leads Cover 20 ft. (6.1m) 25 ft. (7.6m) 50 ft. (15.2m)	9-1260 9-1270 9-1280	Cutting Guide Kits  Circle Guide Kit	7-3291 7-7501	
Remote Pendant Control, 20 ft. (6.1m)  For use with Machine Torch	7-3460	Straight Line 7-8911 Cutting Guide		Radius Kit  Deluxe Kit  7-891		

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