

**PARKER**<sup>®</sup>  
TORCHOLOGY



INNOVATION, TECHNOLOGY, PERFORMANCE

MIG/TIG/PLASMA/ROBO  
WELDING & CUTTING TORCH TECHNOLOGY

**A FRESH APPROACH**

*New*  
**HYP SERIES**

SUREGRIP PLASMA CUTTING TORCH RANGE



## ^ FRESH APPROACH

At Parker Torchology our focus is to be renowned amongst clients for consistently delivering a high quality product and a results driven service.

We aim to achieve this by building a world class product range that can adapt to local needs and by managing an unrivalled network of localized distribution.

Technical excellence in Torch Technology will be matched by a total commitment to individual customer service and a willingness to forge new business partnerships.

Parker Torchology will bring an in-depth knowledge, experience and a strategic vision to place us and our customers at the leading edge of our industry.

**AT PARKER TORCHOLOGY**

**WE TALK TORCHES**

# Contents

HYP Plasma Cutting Range Features Focus	2
HYP Plasma Cutting Range Overview & Ratings	3

## Suregrip™ HYP Specification Information

Cable Terminations Explained	5
Torch Package Configurator	7

## Torch Range

<b>Suregrip™ HYP 60</b> <i>New</i>	8
<b>Suregrip™ HYP 80</b> <i>New</i>	9
<b>Suregrip™ HYP 80R</b> <i>New</i>	10
<b>Suregrip™ HYP 100</b> <i>New</i>	11
<b>Suregrip™ HYP 100R</b> <i>New</i>	12
<b>Suregrip™ HYMP 100R</b>	13

## Wear Parts

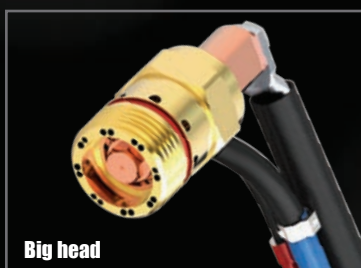
Cutting Tips	14
Electrodes	14
Swirl Rings	14
Retaining Caps	15
Shield Cap Bodies	15
Deflector	15
Wear Parts Configuration Tables	16

## Dynamic Engineering and Superior Design Ergonomics



**Spares and wears**

Precision personified



**Big head**

Torch bodies carry a 1 year warranty



**Safe and sound**

Slide to operate switch guarantees safety



**Grip it**

Soft grips keep it where its needed



**24 hour support**

In any position



**It's terminal**

Fortunately not with our ends

**Suregrip™ welding tools,,  
when productivity counts.**



# Suregrip™ HYP Plasma Cutting Torch Range

**Ratings: 60Amp to 100Amp**



Technical Data	HYP 60	HYP 80	HYP 80R
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	60A	80A	80A
Cutting Thickness	12-18mm	20-25mm	20-25mm
Duty Cycle:	60%	60%	60%
Gas	Air	Air	Air
Gas Pressure	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi
Gas Flow	150 l/min 315 scfh	150 l/min 315 scfh	150 l/min 315 scfh
Pilot	Electrode to Tip	Electrode to Tip	Electrode to Tip
Ignition	Non HF	Non HF	Non HF
Post Flow	90 sec	90 sec	90 sec

# Suregrip™ HYP Plasma Cutting Torch Range

Ratings: 60Amp to 100Amp

**PARKER**  
TORCHOLOGY



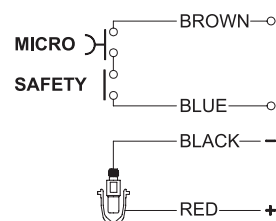
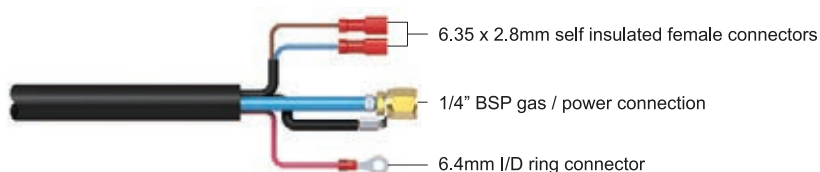
Technical Data	HYP 100	HYP 100R	HYMP 100R
Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled
Rating:	100A	100A	100A
Cutting Thickness	25-30mm	25-30mm	25-30mm
Duty Cycle:	60%	60%	60%
Gas	Air	Air	Air
Gas Pressure	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi	4.5-5.0 bar 65-75 psi
Gas Flow	200 l/min 420 scfh	200 l/min 420 scfh	200 l/min 420 scfh
Pilot	Electrode to Tip	Electrode to Tip	Electrode to Tip
Ignition	Non HF	Non HF	Non HF
Post Flow	90 sec	90 sec	90 sec

# Suregrip™ HYP Plasma Cutting Torch Range

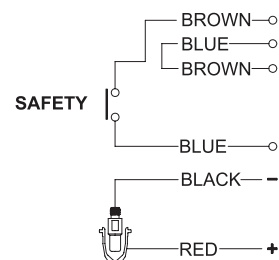
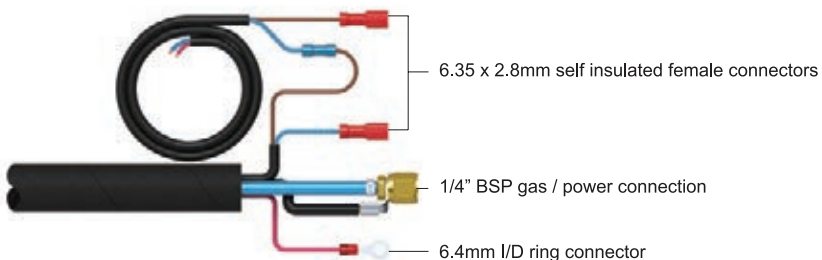
## Cable Terminations & Wiring Systems Explained

### Cable Fitting Options

**CF4**



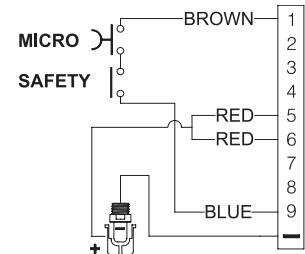
**CF5**



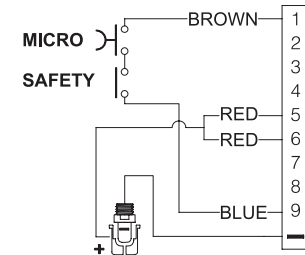


### Central Connector Options

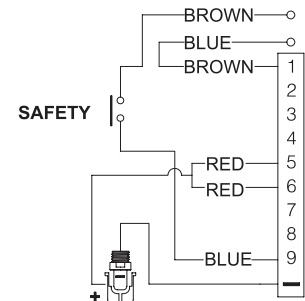
**CC1**



**CC2**



**CC3**



	Model	HYP60	HYP80	HYP80R	HYP100	HYP100R	HYMP100R
Termination	CF4	●	●	●	●	●	●
	CF5	●	●	●	●	●	●
	CC1	●	●	●	●	●	●
	CC2	●	●	●	●	●	●
	CC3	●	●	●	●	●	●

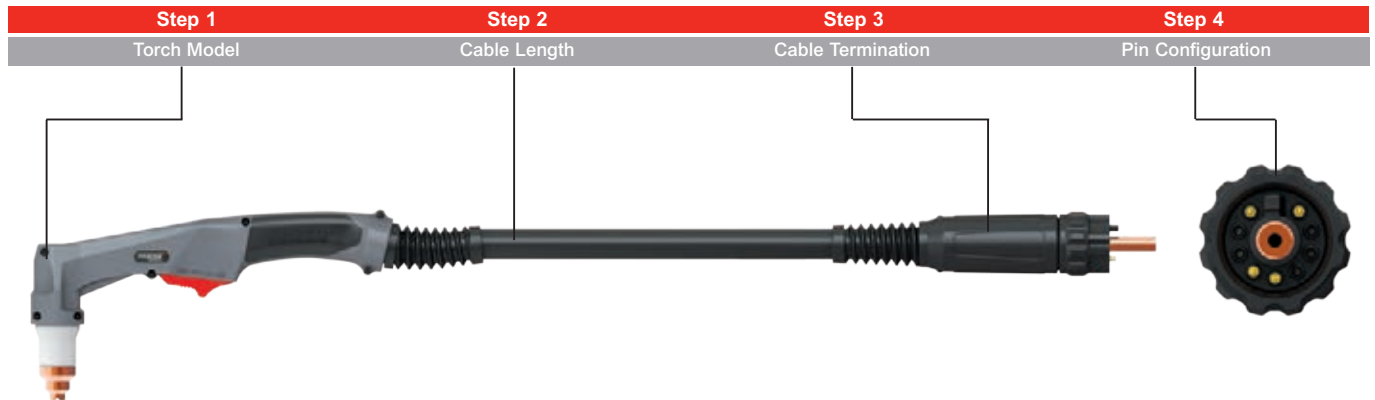
● Denotes standard termination option

Torch Packages can be configured according to customer requirements. See Page 7.



# Suregrip™ HYP Plasma Cutting Torch Range

## Torch Package Configurator




### Ordering Information

Torch package part numbering is configured using the simple 4 stage system outlined below:

1. Select the correct model of torch
2. Select the cable length required
3. Select the power cable connections required
4. If you have selected a CC style termination, specify the pin numbers for the
  - Switch system
  - Safety system
  - Pilot arc
  - Any other requirements

### Example: HYP 60-60-CC1

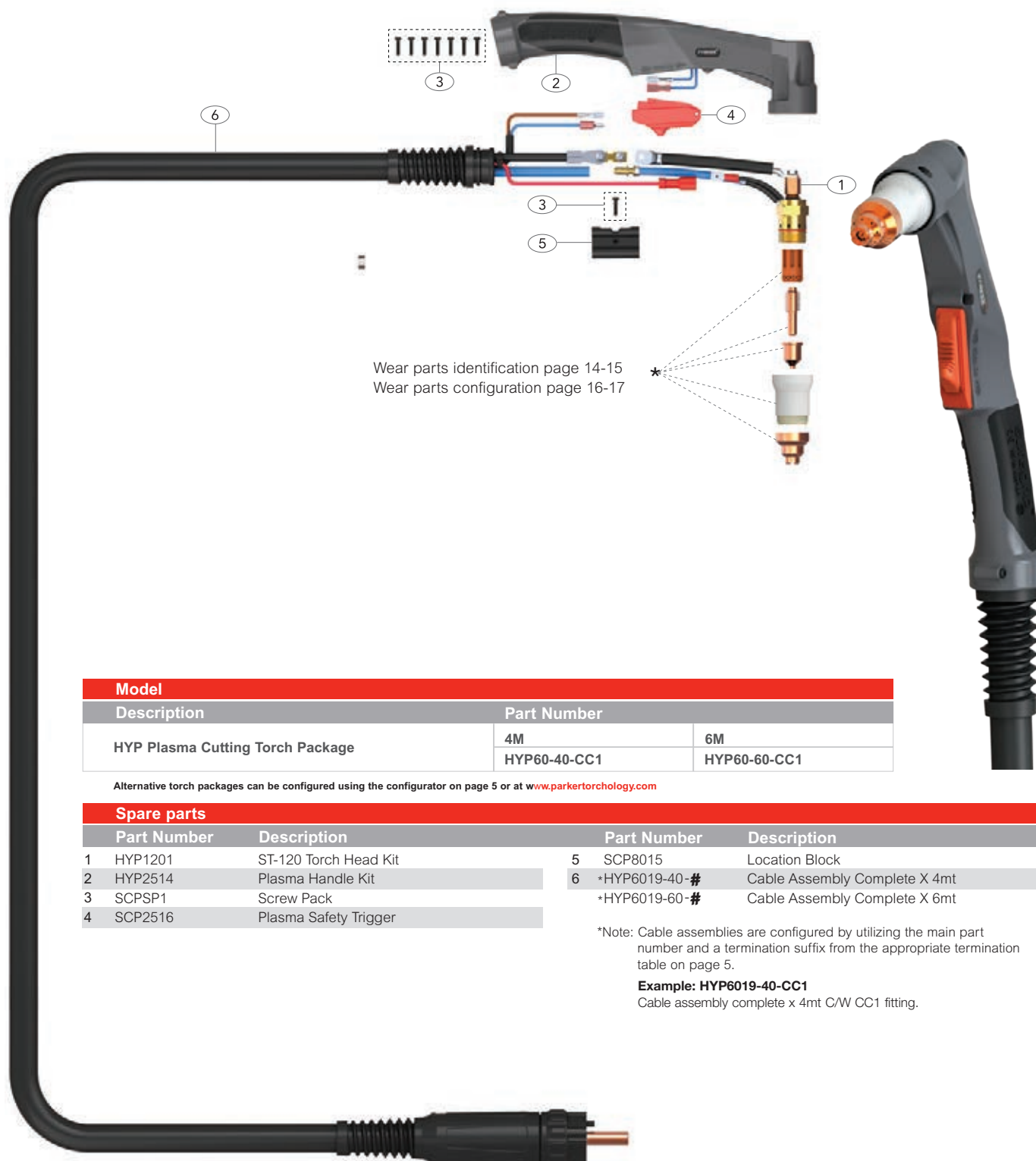
Suregrip™ 60 Torch Package x 6m c/w separate cables and CC1 central connector

Step 1		Step 2		Step 3		Step 4																																					
Torch Model		Cable Length		Cable Termination		Pin Configuration																																					
<table><tr><th>Part No.</th><th>Description</th></tr><tr><td colspan="2">Suregrip™ Series</td></tr><tr><td>HYP 60</td><td>60A Torch Package</td></tr><tr><td>HYP 80</td><td>80A Torch Package</td></tr><tr><td>HYP 80R</td><td>80A Torch Package Canvas Cover</td></tr><tr><td>HYP 100</td><td>100A Torch Package</td></tr><tr><td>HYP 100R</td><td>100A Torch Package Canvas Cover</td></tr><tr><td colspan="2">Machine Torch Series</td></tr><tr><td>HYMP 100R</td><td>100A AutoTorch Package Canvas Cover</td></tr></table>		Part No.	Description	Suregrip™ Series		HYP 60	60A Torch Package	HYP 80	80A Torch Package	HYP 80R	80A Torch Package Canvas Cover	HYP 100	100A Torch Package	HYP 100R	100A Torch Package Canvas Cover	Machine Torch Series		HYMP 100R	100A AutoTorch Package Canvas Cover	<table><tr><th>Part No.</th><th>Description</th></tr><tr><td>40</td><td>4m</td></tr><tr><td>60</td><td>6m</td></tr></table>		Part No.	Description	40	4m	60	6m	<table><tr><th>Part No.</th><th>Description</th></tr><tr><td>CF4</td><td>1/4" BSP</td></tr><tr><td>CF5</td><td>1/4" BSP Auto</td></tr><tr><td>CC1</td><td>Central Connector</td></tr><tr><td>CC2</td><td>Central Connector for Canvas Cover</td></tr><tr><td>CC3</td><td>Central Connector for Canvas Cover Auto</td></tr></table>		Part No.	Description	CF4	1/4" BSP	CF5	1/4" BSP Auto	CC1	Central Connector	CC2	Central Connector for Canvas Cover	CC3	Central Connector for Canvas Cover Auto		
Part No.	Description																																										
Suregrip™ Series																																											
HYP 60	60A Torch Package																																										
HYP 80	80A Torch Package																																										
HYP 80R	80A Torch Package Canvas Cover																																										
HYP 100	100A Torch Package																																										
HYP 100R	100A Torch Package Canvas Cover																																										
Machine Torch Series																																											
HYMP 100R	100A AutoTorch Package Canvas Cover																																										
Part No.	Description																																										
40	4m																																										
60	6m																																										
Part No.	Description																																										
CF4	1/4" BSP																																										
CF5	1/4" BSP Auto																																										
CC1	Central Connector																																										
CC2	Central Connector for Canvas Cover																																										
CC3	Central Connector for Canvas Cover Auto																																										
NOTE: See page 5 for Cable Terminations explained																																											

NOTE: See page 5 for Cable Terminations explained

	Pin No	Pin No
Switch	_____	_____
Safety	_____	_____
Pilot Arc	_____	_____
Others	_____	_____

An easy to use electronic torch package configurator system is also available at [www.parkertorchology.com](http://www.parkertorchology.com)



Model		
Description	Part Number	
HYP Plasma Cutting Torch Package	4M	6M
	HYP60-40-CC1	HYP60-60-CC1

Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1	HYP1201	ST-120 Torch Head Kit	
2	HYP2514	Plasma Handle Kit	
3	SCPSP1	Screw Pack	
4	SCP2516	Plasma Safety Trigger	
5	SCP8015	Location Block	
6	*HYP6019-40-#	Cable Assembly Complete X 4mt	
	*HYP6019-60-#	Cable Assembly Complete X 6mt	

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: HYP6019-40-CC1**

Cable assembly complete x 4mt C/W CC1 fitting.

See power cable terminations page 6

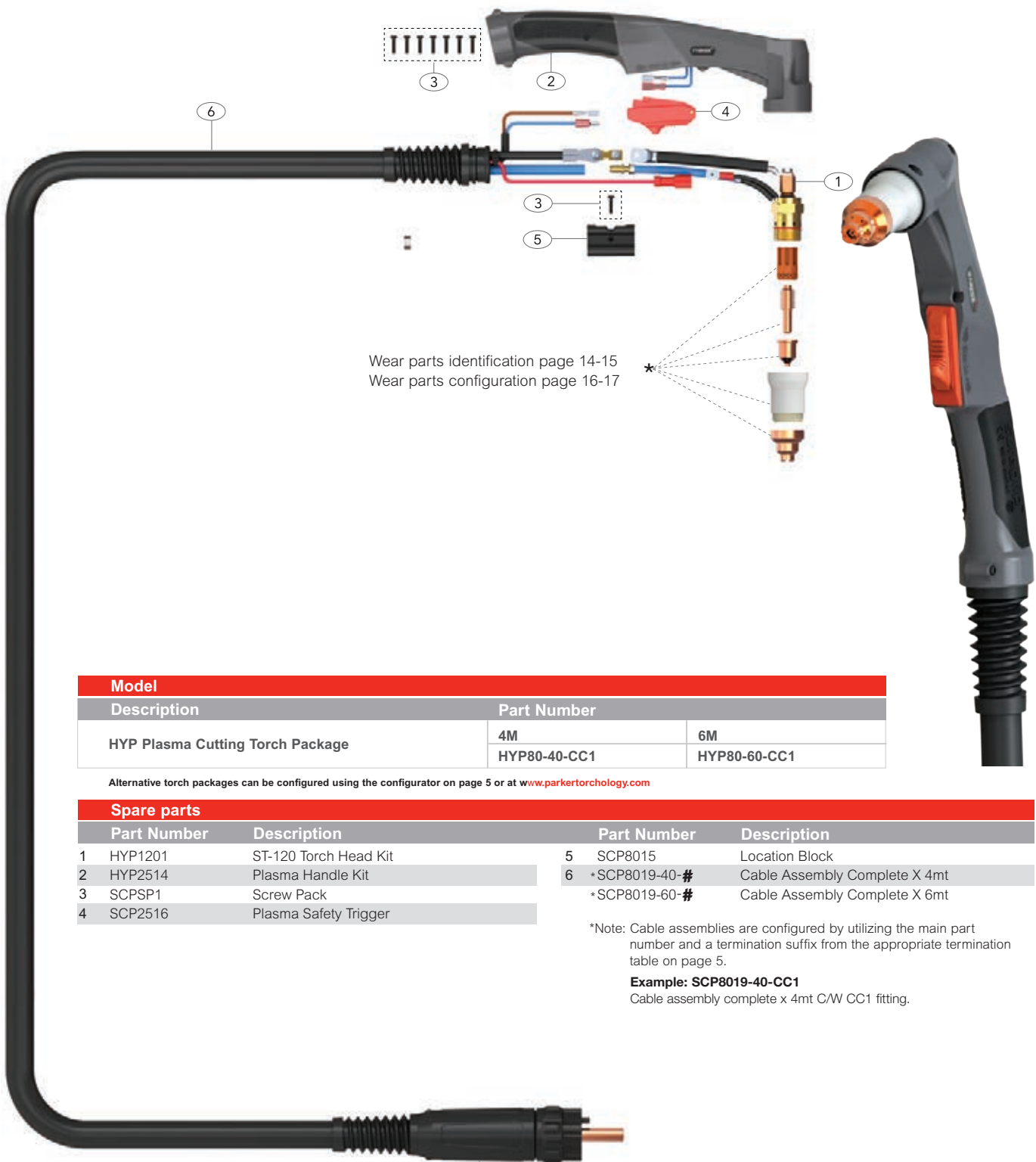
# Suregrip™ HYP Plasma Cutting Torch Range

New

**HYP 80**

Air-Cooled Cutting Torch Range  
Rating: 80A Air gas, @ 60% duty cycle.

**PARKER**  
TORCHOLOGY



Model		
Description	Part Number	
HYP Plasma Cutting Torch Package	4M	6M
	HYP80-40-CC1	HYP80-60-CC1

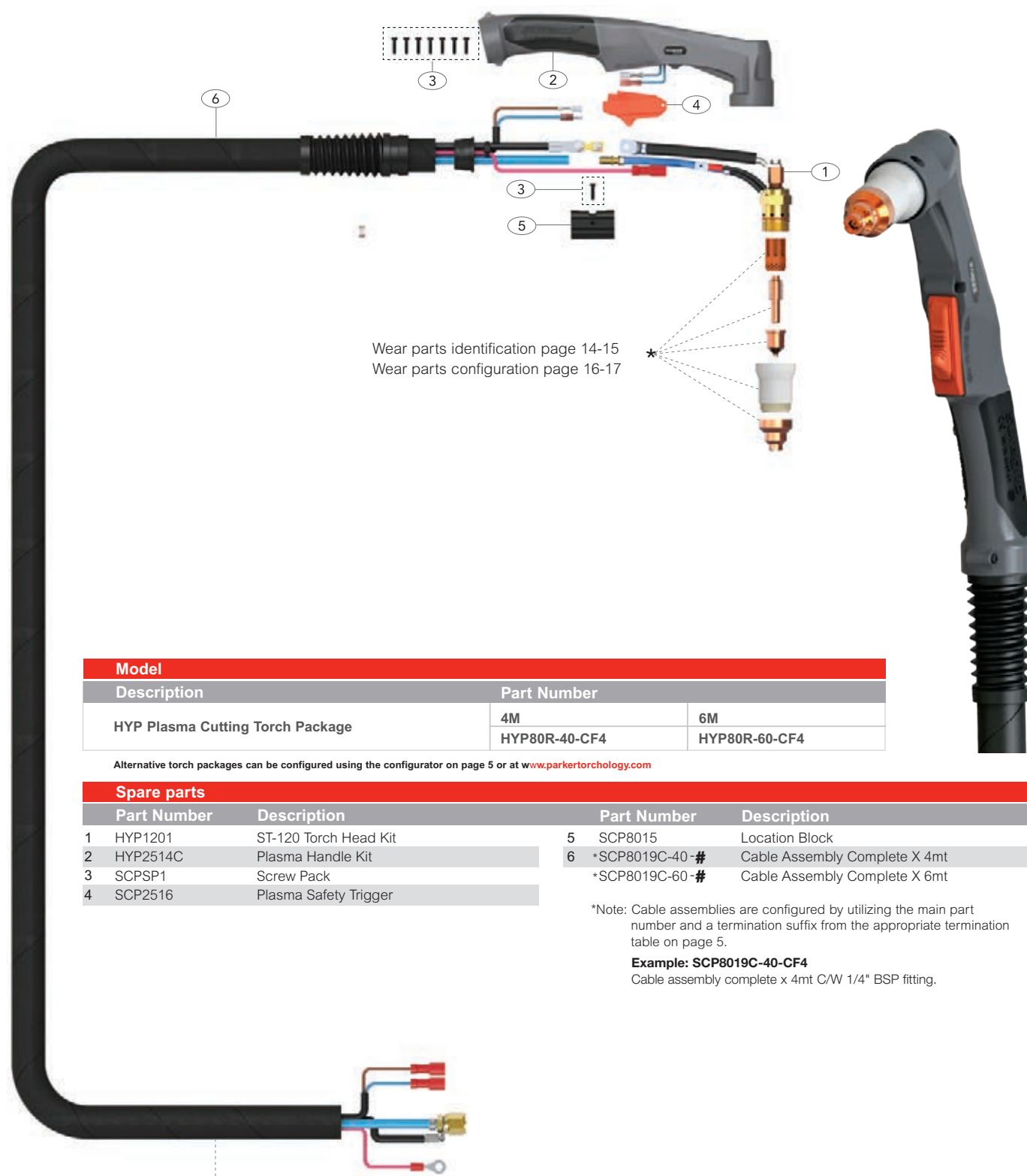
Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1	HYP1201	ST-120 Torch Head Kit	
2	HYP2514	Plasma Handle Kit	
3	SCPSP1	Screw Pack	
4	SCP2516	Plasma Safety Trigger	
5	SCP8015	Location Block	
6	*SCP8019-40-#	Cable Assembly Complete X 4mt	
	*SCP8019-60-#	Cable Assembly Complete X 6mt	

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: SCP8019-40-CC1**  
Cable assembly complete x 4mt C/W CC1 fitting.

See power cable terminations page 6



Model		
Description	Part Number	
HYP Plasma Cutting Torch Package	4M	6M
	HYP80R-40-CF4	HYP80R-60-CF4

Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1 HYP1201	ST-120 Torch Head Kit	5 SCP8015	Location Block
2 HYP2514C	Plasma Handle Kit	6 *SCP8019C-40-#	Cable Assembly Complete X 4mt
3 SCPSP1	Screw Pack	*SCP8019C-60-#	Cable Assembly Complete X 6mt
4 SCP2516	Plasma Safety Trigger		

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: SCP8019C-40-CF4**

Cable assembly complete x 4mt C/W 1/4" BSP fitting.

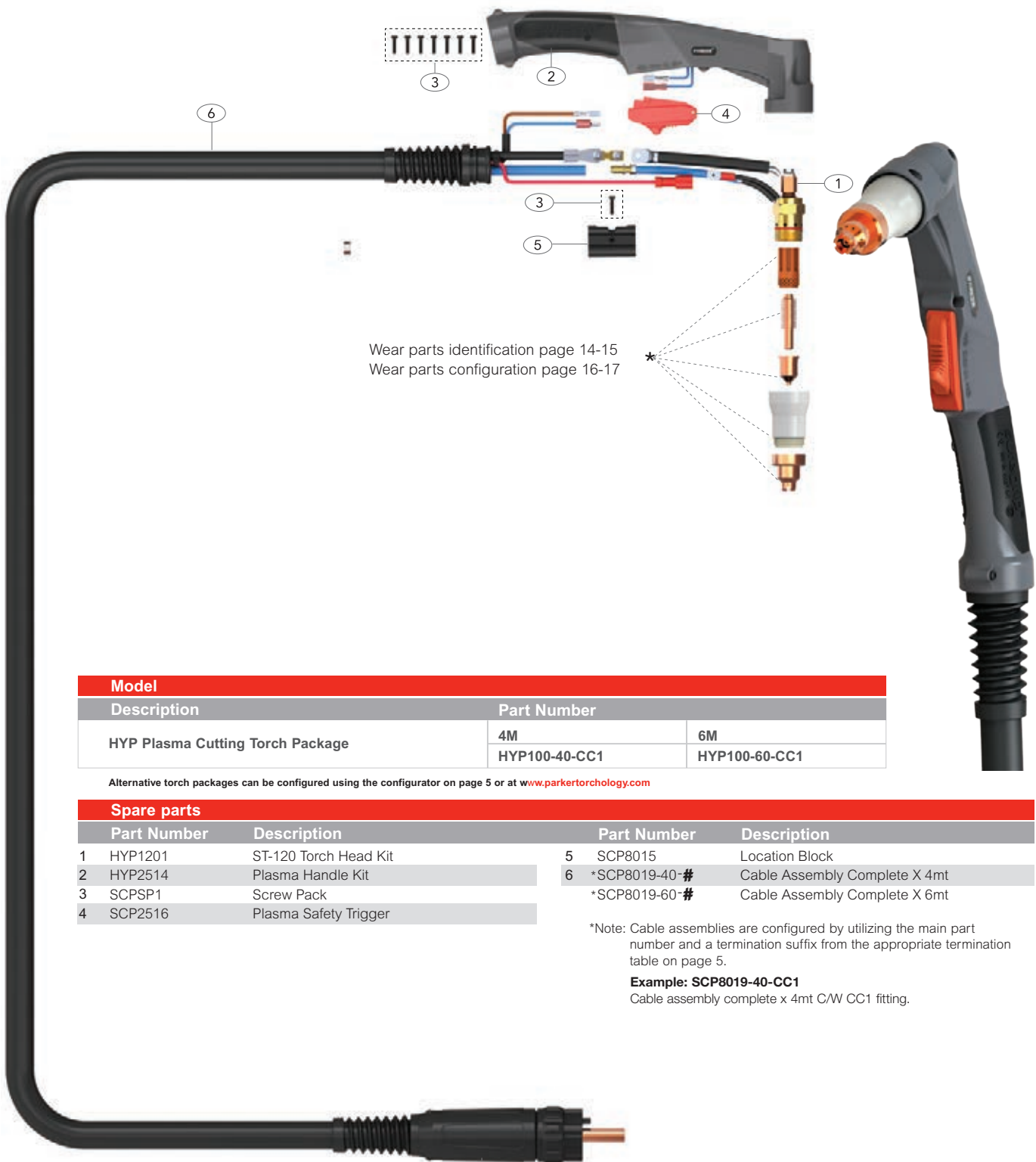
\* See power cable terminations page 6

# Suregrip™ HYP Plasma Cutting Torch Range

New  
**HYP 100**

Air-Cooled Cutting Torch Range  
Rating: 100A Air gas, @ 60% duty cycle.

**PARKER**  
TORCHOLOGY



Wear parts identification page 14-15  
Wear parts configuration page 16-17

Model		
Description	Part Number	
HYP Plasma Cutting Torch Package	4M	6M
	HYP100-40-CC1	HYP100-60-CC1

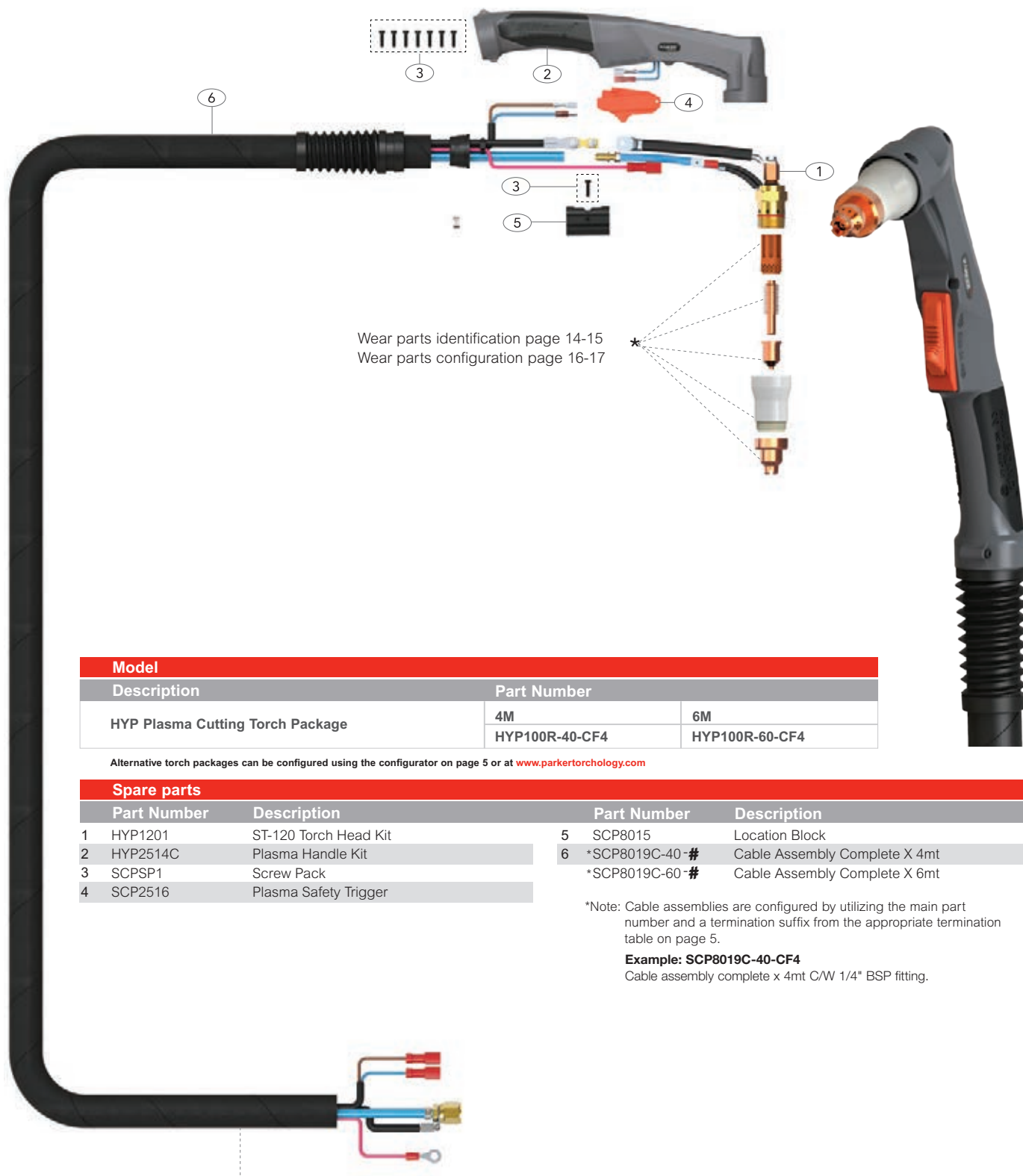
Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1	HYP1201	ST-120 Torch Head Kit	
2	HYP2514	Plasma Handle Kit	
3	SCPSP1	Screw Pack	
4	SCP2516	Plasma Safety Trigger	
5	SCP8015	Location Block	
6	*SCP8019-40-#	Cable Assembly Complete X 4mt	
	*SCP8019-60-#	Cable Assembly Complete X 6mt	

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: SCP8019-40-CC1**  
Cable assembly complete x 4mt C/W CC1 fitting.

See power cable terminations page 6



Wear parts identification page 14-15  
Wear parts configuration page 16-17

Model		
Description	Part Number	
HYP Plasma Cutting Torch Package	4M	6M
	HYP100R-40-CF4	HYP100R-60-CF4

Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1 HYP1201	ST-120 Torch Head Kit	5 SCP8015	Location Block
2 HYP2514C	Plasma Handle Kit	6 *SCP8019C-40-#	Cable Assembly Complete X 4mt
3 SCPSP1	Screw Pack	*SCP8019C-60-#	Cable Assembly Complete X 6mt
4 SCP2516	Plasma Safety Trigger		

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: SCP8019C-40-CF4**

Cable assembly complete x 4mt C/W 1/4" BSP fitting.

See power cable terminations page 6

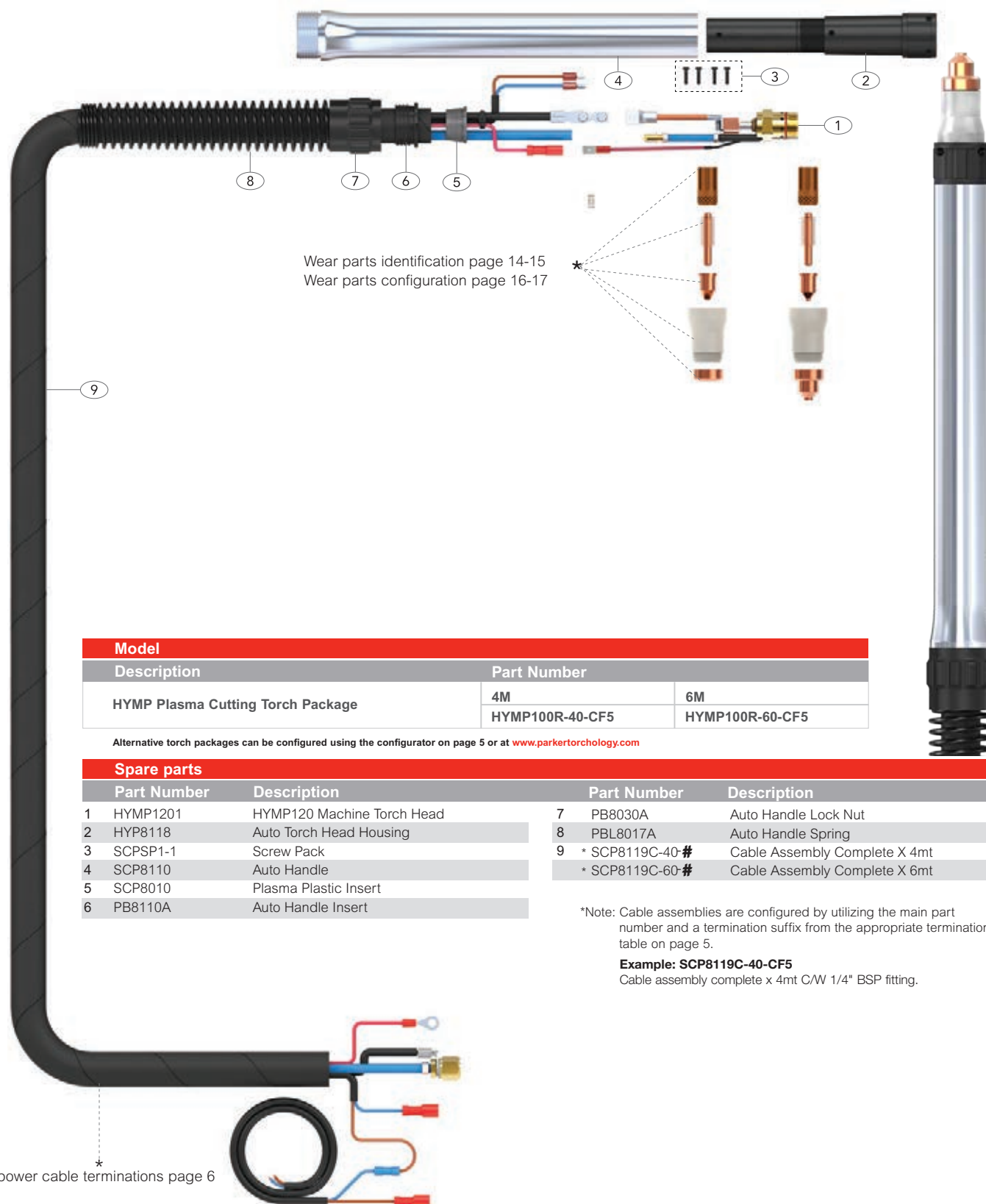
# Suregrip™ HYP Plasma Cutting Torch Range



New

## HYMP 100R

Air-Cooled Cutting Torch Range  
Rating: 100A Air gas, @ 60% duty cycle.



Model		
Description	Part Number	
HYMP Plasma Cutting Torch Package	4M	6M
	HYMP100R-40-CF5	HYMP100R-60-CF5

Alternative torch packages can be configured using the configurator on page 5 or at [www.parkertorchology.com](http://www.parkertorchology.com)

Spare parts			
Part Number	Description	Part Number	Description
1	HYMP1201 HYMP120 Machine Torch Head	7	PB8030A Auto Handle Lock Nut
2	HYP8118 Auto Torch Head Housing	8	PBL8017A Auto Handle Spring
3	SCPSP1-1 Screw Pack	9	* SCP8119C-40-# Cable Assembly Complete X 4mt
4	SCP8110 Auto Handle		* SCP8119C-60-# Cable Assembly Complete X 6mt
5	SCP8010 Plasma Plastic Insert		
6	PB8110A Auto Handle Insert		

\*Note: Cable assemblies are configured by utilizing the main part number and a termination suffix from the appropriate termination table on page 5.

**Example: SCP8119C-40-CF5**

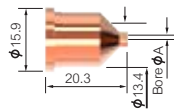
Cable assembly complete x 4mt C/W 1/4" BSP fitting.

See power cable terminations page 6

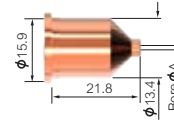


### Cutting Tips

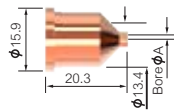
HYP		60	
Part No.	Description	Bore $\phi$ A	Material
P120931	Tip 60A Shield	1.2mm	Cu-Te



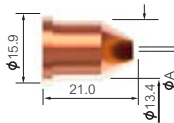
HYP/HYMP		100/100R	
Part No.	Description	Bore $\phi$ A	Material
P220011	Tip 100A Shield	1.5mm	Cu-Te



HYP		80/80R	
Part No.	Description	Bore $\phi$ A	Material
P120927	Tip 80A Shield	1.4mm	Cu-Te

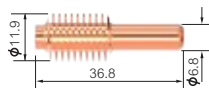


HYP/HYMP		100/100R	
Part No.	Description	Bore $\phi$ A	Material
P220064	Tip 100A Unshielded	1.5mm	Cu-Te

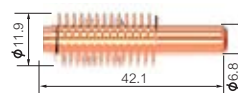


### Electrodes

HYP		60/80/80R	
Part No.	Description	Material	
P120926	Electrode 40-80A	Cu-Te	

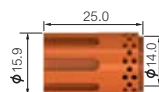


HYP/HYMP		100/100R	
Part No.	Description	Material	
P220037	Electrode 100A	Cu-Te	

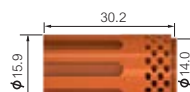


### Swirl Rings

HYP		60/80/80R	
Part No.	Description		
* P120925	Swirl Ring Maximum Life, 40-80A		



HYP/HYMP		100/100R	
Part No.	Description		
* P220051	Swirl Ring Maximum Life, 100A		



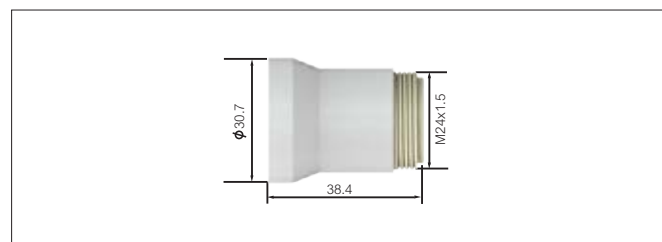
\* Denotes torch package standard wear part set up

## Wear Parts

### Retaining Caps

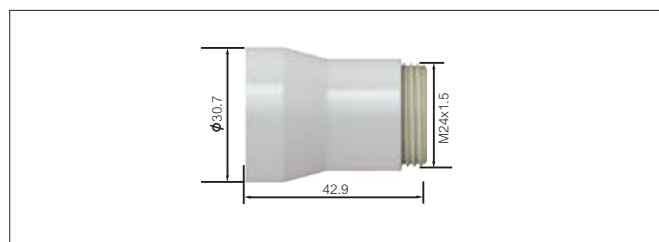
#### HYP 60/80/80R

Part No.	Description
HYP6030	Retaining Cap, 40-80A



#### HYP/HYMP 100/100R

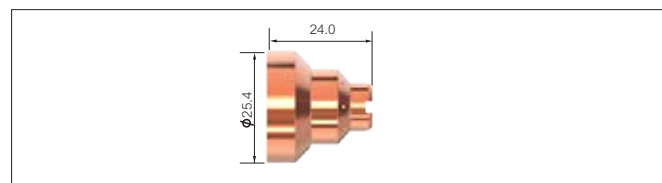
Part No.	Description
* HYP1230	Retaining Cap, 100A



### Shield Caps

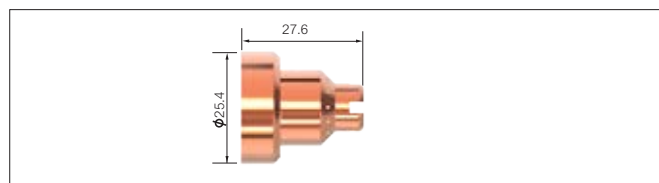
#### HYP 60/80/80R

Part No.	Description
P120929	Hand Shield, Hand, 40-80A



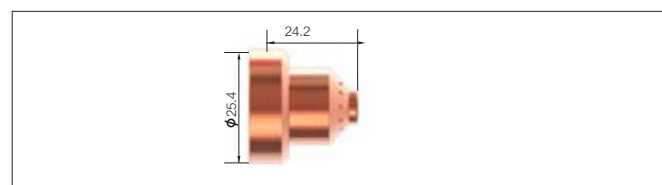
#### HYP 100/100R

Part No.	Description
P220065	Hand Shield, Hand, 100A



#### HYMP 100R

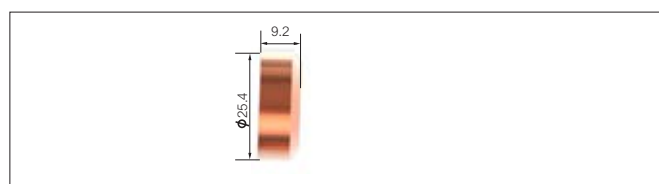
Part No.	Description
P220047	Shield Cap, Machine, 100A



### Deflector

#### HYMP 100R

Part No.	Description
P120979	Deflector



\* Denotes torch package standard wear part set up

### HYP 60 Series

#### Contact Cutting



P120925  
Swirl Ring  
Maximum Life,  
40-80A



P120926  
Electrode  
40-80A



P120931  
Tip 60A Shield



HYP6030  
Retaining Cap,  
40-80A



P120929  
Hand Shield,  
Hand,40-80A

\*Wear parts part number and sizes are available on pages 14-15

### HYP 80 Series

#### Contact Cutting



P120925  
Swirl Ring  
Maximum Life,  
40-80A



P120926  
Electrode  
40-80A



P120927  
Tip 80A Shield



HYP6030  
Retaining Cap,  
40-80A



P120929  
Hand Shield,  
Hand,40-80A

\*Wear parts part number and sizes are available on pages 14-15

### HYP 80R Series

#### Contact Cutting



P120925  
Swirl Ring  
Maximum Life,  
40-80A



P120926  
Electrode  
40-80A



P120927  
Tip 60A Shield



HYP6030  
Retaining Cap,  
40-80A



P120929  
Hand Shield,  
Hand,40-80A

\*Wear parts part number and sizes are available on pages 14-15

# Wear Parts Identification Tables

## Wear Parts Configuration Tables

### HYP 100 Series

#### Contact Cutting



\*Wear parts part number and sizes are available on pages 14-15

### HYP 100R Series

#### Contact Cutting



\*Wear parts part number and sizes are available on pages 14-15

### HYMP 100R Series

#### Shielded Parts



\*Wear parts part number and sizes are available on pages 14-15

#### Unshielded Parts



\*Wear parts part number and sizes are available on pages 14-15

## Product Range:

### MIG/MAG

- Welding torches
- Analogue/Digital control torches
- Spool-on/Push Pull torches
- Robotic/Automatic torches

### TIG

- Welding torches
- Analogue/Digital control torches
- Automatic torches

### PLASMA

- Cutting torches
- Automatic torches

### WELDING ACCESSORIES

- Machine side connectors
- Cable plugs and sockets



Jinan Export Processing Zone  
The East End of Jing Shi Dong Road  
Jinan 250102  
P.R. China

The design, manufacturing and quality systems of Parker Torchology  
are certified by BVQI in accordance with ISO 9001-2008

All products conform to EN60974-7 RoHS2 REACH

Tel: +86 531 88239823  
Fax: +86 531 88239398  
Website: [www.parkertorchology.com](http://www.parkertorchology.com)  
Email: [info@parkertorchology.com](mailto:info@parkertorchology.com)  
MPP001 / V.2016.03