

SUREGRIP HYP
PLASMA CUTTING SERIES



Welding Tools for the Professional

A Smart Approach

Parker Torchology is shaped by people with vision, a passion for improvement and a belief in delivering the very best Welding and Cutting Torch Range in the World.

We expect a great deal from our products, so we ask a lot of ourselves and our engineers.

Our mantra: **Innovation, Technology, Performance.**



DNA

Design and Engineering excellence are at the core of everything we do.

Every torch we build is driven by our relentless pursuit of perfection.

Premium Features

At Parker Torchology we do things differently, we strive to solve your problems with the perfect product to suit your needs. We create smart product features encased in cutting-edge design to ensure you always have the best tools to hand.





Production

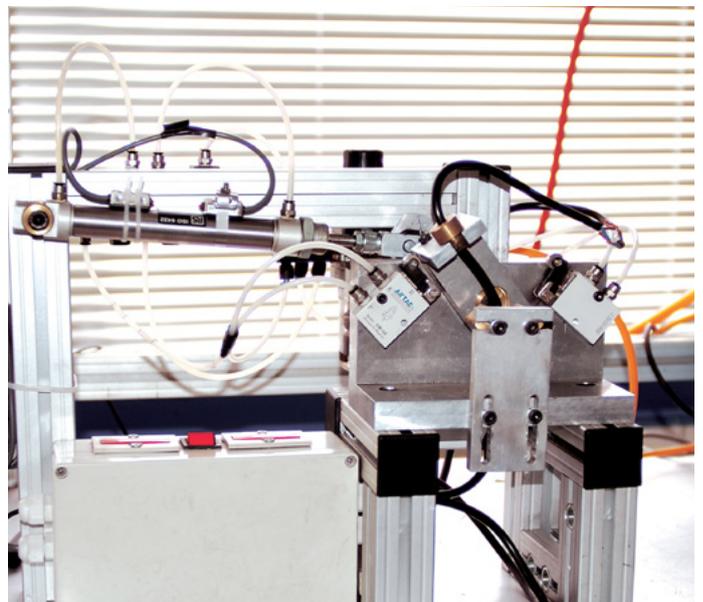
A fusion of precision production engineering, our bespoke processing techniques and a fanatical attention to detail ensures every welding torch we produce is worthy of the Parker Torchology name.

Testing, Testing, Testing

It takes patience to develop a new product, it's a lot more than a great idea.

Product development is an iterative process, trying something over and over, changing one small variable at a time.

We build endless prototypes and test pieces that undergo months of rigorous testing. Only once a product has passed up to 88 different test procedures, with every single part tested separately do we consider our latest designs ready for market.



Partners

Our customers and business partners play a vital role in our development. With the core aim to strive together, we work with end users, distributors and academic institutions alike.

As a result we share fundamental values in order to succeed in our respective market places, supporting economic growth and collaborative opportunities with others.



A Bright Future

Technology doesn't stand still, which is why we are constantly innovating to bring you the best products on the market.

Our strong vision and focused innovation strategy, not to mention our passion to revolutionize the industry, ensure that Parker Torchology is a byword for excellence.

We Talk Torches

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Suregrip HYP Plasma Cutting Torch Range

Air-Cooled Features Focus

Air-Cooled

Suregrip HYP series torches initiate without the use of high frequency. Wear parts are engineered with higher levels of "force cooling" for premium cutting performance and longer life.

Dynamic Engineering and Superior Design Ergonomics



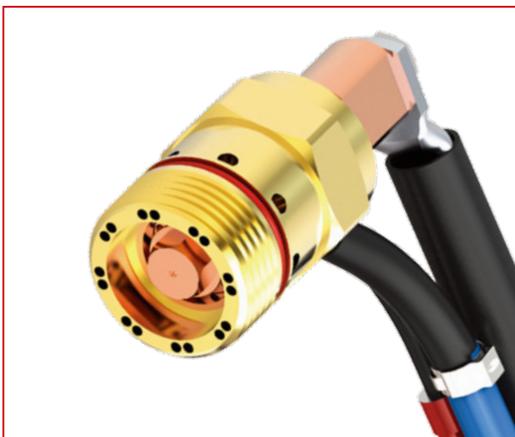
100% Hypertherm® Compatibility Guaranteed

Quality Wear Parts

All wear parts are manufactured to the same specification as the original manufacturer ensuring reliability, longevity and superior performance

Safety Systems

A twin "fail-safe" system located beneath the shield cap ensures the torch cannot be activated if the cap is removed



Torch Bodies

Produced from precision toleranced machined parts and aerospace polymers

Features Focus

Cutting Tools for the Professional



Ergonomics – For Comfort and Handleability

- Large surface area grips improve positionability and operator comfort
- Cable supports are designed to offer the greatest flexibility

Trigger System

A patented slide to operate switch system is easy to operate and prevents accidental torch ignition



Terminations

Terminations available for separate and central connector cable types

The Smart Way To Buy Welding and Cutting Tools



Suregrip HYP Plasma Cutting Torch Range

Ratings: 60 Amp to 100 Amp



| Model | HYP 60 | HYP 80 | HYP 80R |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Technical Data | | | |
| 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 |

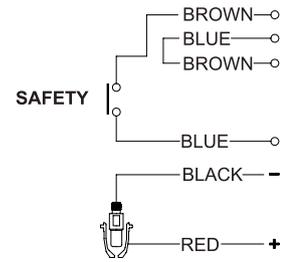
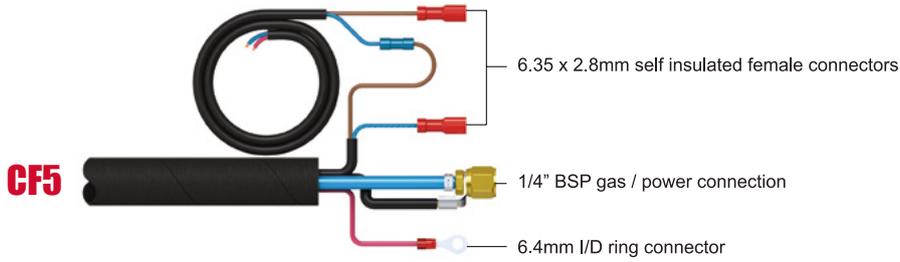
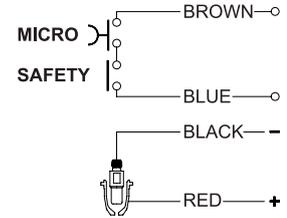
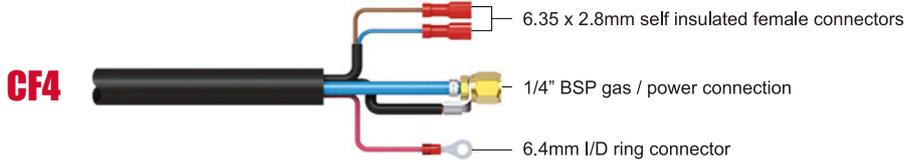
Suregrip HYP Plasma Cutting Torch Range

Ratings: 60 Amp to 100 Amp



| Model | HYP 100 | HYP 100R | HYMP 100R |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Technical Data | | | |
| 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 |

Cable Fitting Options

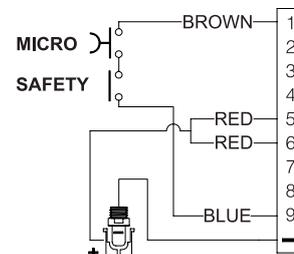


Suregrip HYP Plasma Cutting Torch Range

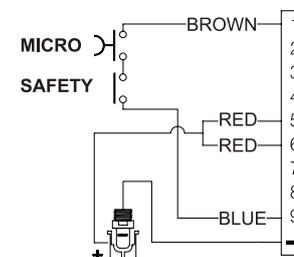
Cable Terminations and Wiring Systems Explained

Central Connector Options

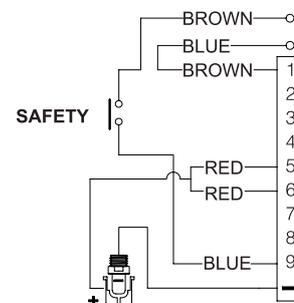
CC1



CC2



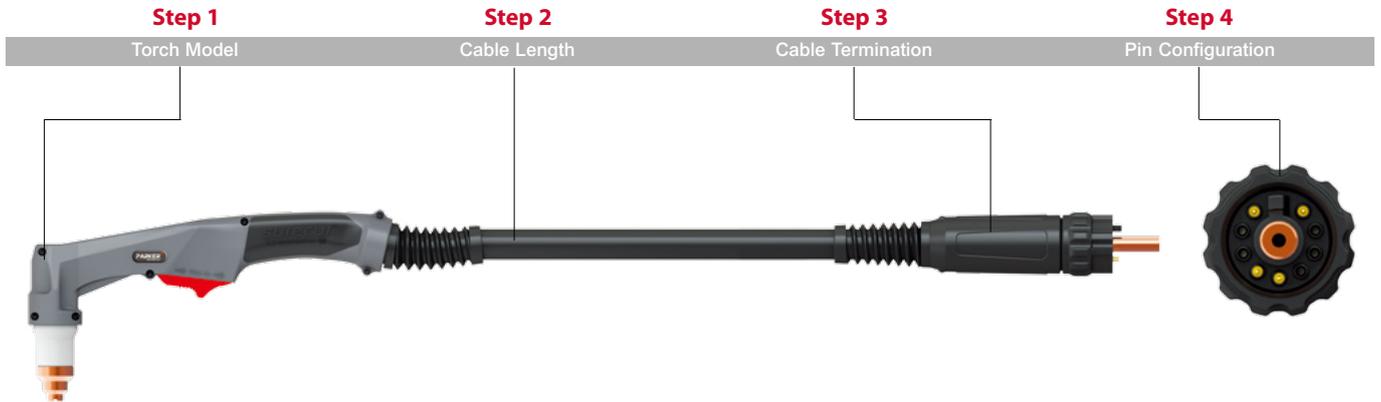
CC3



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

● Denotes standard termination option

Torch Packages can be configured according to customer requirements. See Page 12.



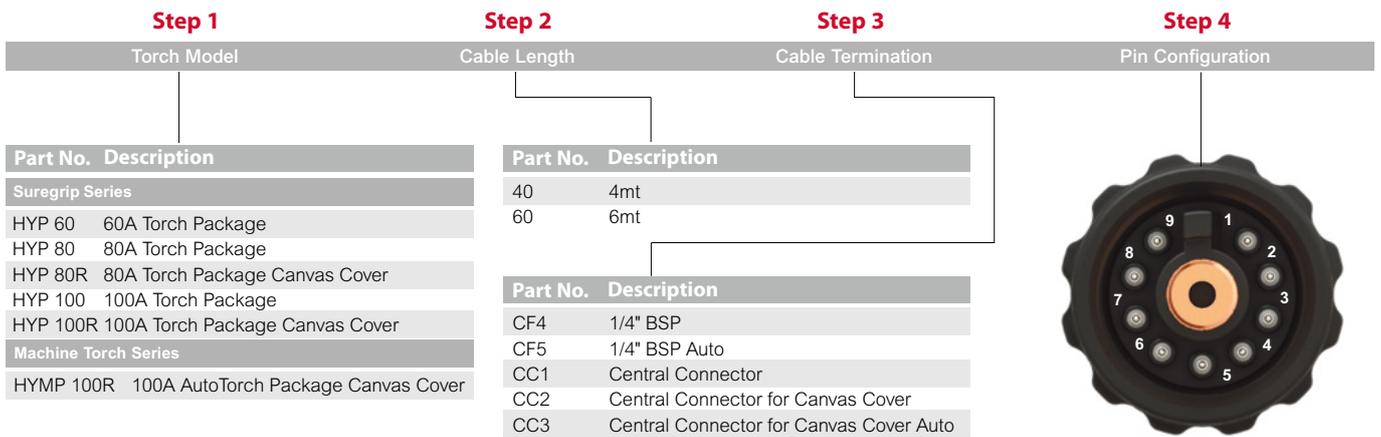
Ordering Information

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
 - Switch system
 - Safety system
 - Pilot arc
 - Any other requirements

Example: HYP 60-60-CC1

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



NOTE: See page 10 for Cable Terminations explained

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

HYP 60 Suregrip HYP Plasma Cutting Torch Range

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



Contact Cutting

- | | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| P120925 Swirl Ring Maximum Life, 40-80A | P120926 Electrode 40-80A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P120929 Hand Shield, Hand,40-80A |

Model

| Description | Part No. | |
|-------------|----------------------------------|---------------------|
| | HYP Plasma Cutting Torch Package | 4mt HYP60-40-CC1 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore Ø A |
|----------|----------------|----------|
| P120931 | Tip 60A Shield | 1.2mm |

Retaining Caps

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

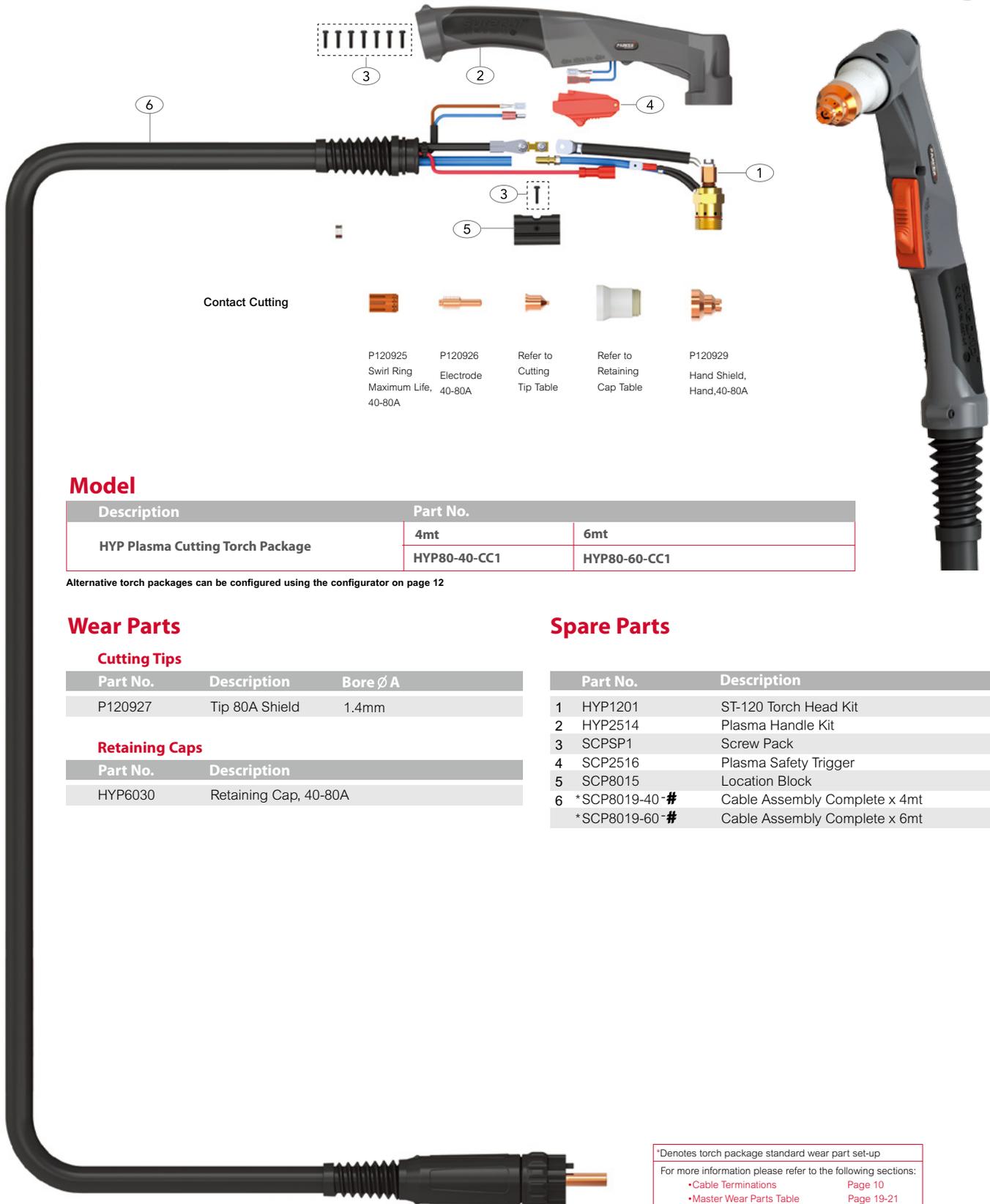
Spare Parts

| Part No. | 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 |

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Cable Terminations Page 10
•Master Wear Parts Table Page 19-21
•Wear Parts Configuration Tables Page 22-23

HYP 80 Suregrip HYP Plasma Cutting Torch Range

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



Contact Cutting

- | | | | | |
|--|--------------------------------|----------------------------------|------------------------------------|--|
| | | | | |
| P120925 Swirl Ring Maximum Life, 40-80A | P120926 Electrode 40-80A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P120929 Hand Shield, Hand.40-80A |

Model

| Description | Part No. | |
|-------------|----------------------------------|---------------------|
| | HYP Plasma Cutting Torch Package | 4mt HYP80-40-CC1 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore \varnothing A |
|----------|----------------|----------------------|
| P120927 | Tip 80A Shield | 1.4mm |

Retaining Caps

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

Spare Parts

| Part No. | 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 |

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
 •Cable Terminations Page 10
 •Master Wear Parts Table Page 19-21
 •Wear Parts Configuration Tables Page 22-23

HYP 80R Suregrip HYP Plasma Cutting Torch Range

Rating: 80A Air gas, @ 60% duty cycle.

Air-Cooled Cutting Torch Range



Contact Cutting

- 
 P120925
 Swirl Ring
 Maximum Life,
 40-80A
- 
 P120926
 Electrode
 40-80A
- 
 Refer to
 Cutting
 Tip Table
- 
 Refer to
 Retaining
 Cap Table
- 
 P120929
 Hand Shield,
 Hand,40-80A

Model

| Description | Part No. | |
|----------------------------------|---------------|---------------|
| | 4mt | 6mt |
| HYP Plasma Cutting Torch Package | HYP80R-40-CF4 | HYP80R-60-CF4 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore \varnothing A |
|----------|----------------|----------------------|
| P120927 | Tip 80A Shield | 1.4mm |

Retaining Caps

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

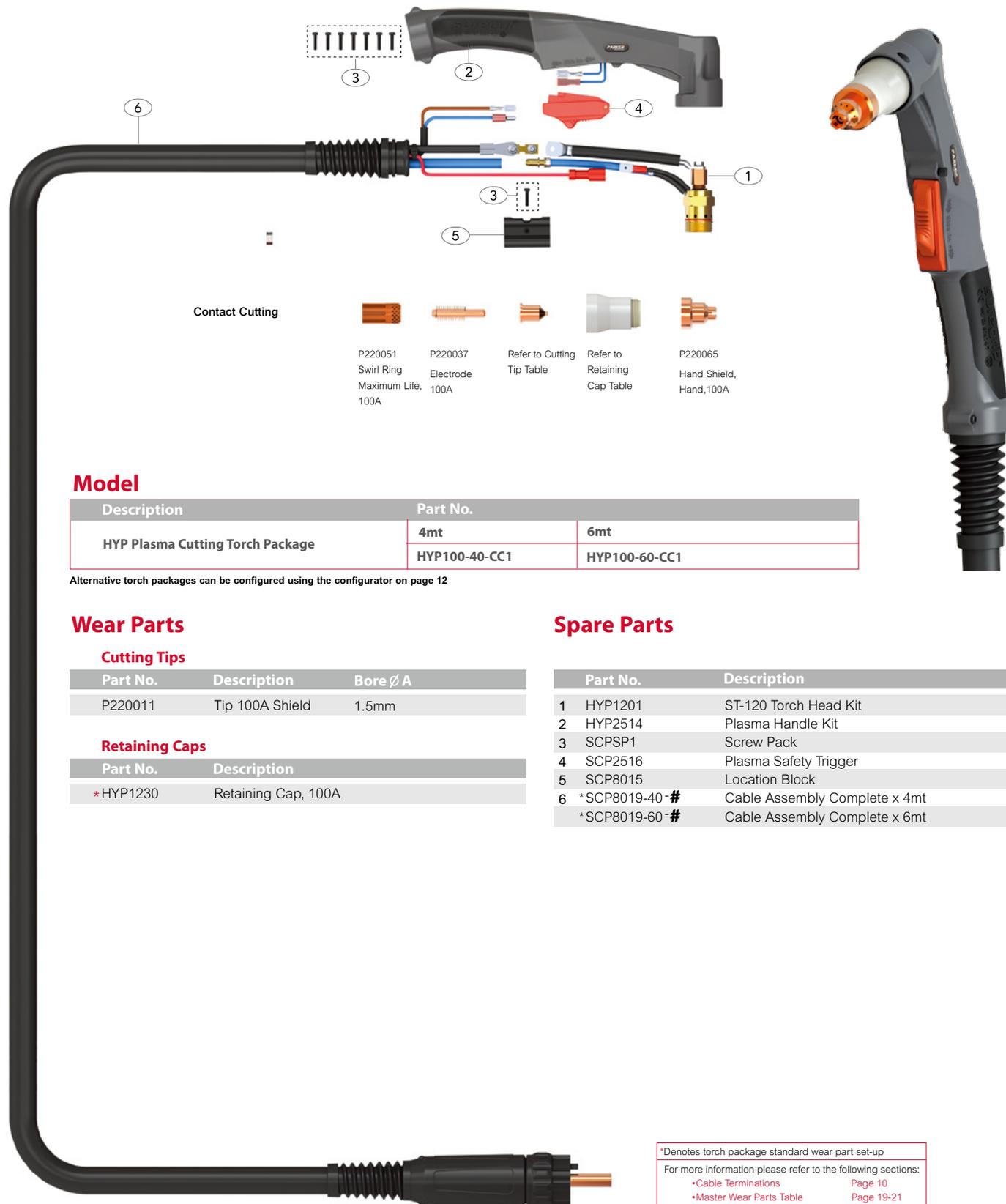
Spare Parts

| Part No. | Description |
|----------|---|
| 1 | HYP1201 ST-120 Torch Head Kit |
| 2 | HYP2514C Plasma Handle Kit |
| 3 | SCPSP1 Screw Pack |
| 4 | SCP2516 Plasma Safety Trigger |
| 5 | SCP8015 Location Block |
| 6 | *SCP8019C-40 -# Cable Assembly Complete x 4mt |
| | *SCP8019C-60 -# Cable Assembly Complete x 6mt |

*Denotes torch package standard wear part set-up
 For more information please refer to the following sections:
 •Cable Terminations Page 10
 •Master Wear Parts Table Page 19-21
 •Wear Parts Configuration Tables Page 22-23

HYP 100 Suregrip HYP Plasma Cutting Torch Range

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



Contact Cutting

- | | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| P220051 Swirl Ring Maximum Life, 100A | P220037 Electrode 100A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P220065 Hand Shield, Hand,100A |

Model

| Description | Part No. | |
|-------------|----------------------------------|----------------------|
| | HYP Plasma Cutting Torch Package | 4mt HYP100-40-CC1 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore \varnothing A |
|----------|-----------------|----------------------|
| P220011 | Tip 100A Shield | 1.5mm |

Retaining Caps

| Part No. | Description |
|----------|---------------------|
| *HYP1230 | Retaining Cap, 100A |

Spare Parts

| Part No. | 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 |

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
 •Cable Terminations Page 10
 •Master Wear Parts Table Page 19-21
 •Wear Parts Configuration Tables Page 22-23

HYP 100R Suregrip HYP Plasma Cutting Torch Range

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



Contact Cutting

- | | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| P220051 Swirl Ring Maximum Life, 100A | P220037 Electrode 100A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P220065 Hand Shield, Hand,100A |

Model

| Description | Part No. | |
|-------------|----------------------------------|-----------------------|
| | HYP Plasma Cutting Torch Package | 4mt HYP100R-40-CF4 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore \varnothing A |
|----------|-----------------|----------------------|
| P220011 | Tip 100A Shield | 1.5mm |

Retaining Caps

| Part No. | Description |
|-----------|---------------------|
| * HYP1230 | Retaining Cap, 100A |

Spare Parts

| Part No. | Description |
|----------|--|
| 1 | HYP1201 ST-120 Torch Head Kit |
| 2 | HYP2514C Plasma Handle Kit |
| 3 | SCPSP1 Screw Pack |
| 4 | SCP2516 Plasma Safety Trigger |
| 5 | SCP8015 Location Block |
| 6 | * SCP8019C-40 -# Cable Assembly Complete x 4mt |
| | * SCP8019C-60 -# Cable Assembly Complete x 6mt |

*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
 • Cable Terminations Page 10
 • Master Wear Parts Table Page 19-21
 • Wear Parts Configuration Tables Page 22-23



Shielded Parts

| | | | | |
|--|---------------------------|-------------------------------|---------------------------------|--|
| P220051 Swirl Ring Maximum Life, 100A | P220037 Electrode 100A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P220047 Shield, Cap,Machine,100A |
|--|---------------------------|-------------------------------|---------------------------------|--|

Unshielded Parts

| | | | | |
|--|---------------------------|-------------------------------|---------------------------------|----------------------|
| P220051 Swirl Ring Maximum Life, 100A | P220037 Electrode 100A | Refer to Cutting Tip Table | Refer to Retaining Cap Table | P120979 Deflector |
|--|---------------------------|-------------------------------|---------------------------------|----------------------|

Model

| Description | Part No. | |
|----------------------------------|-----------------|-----------------|
| HYP Plasma Cutting Torch Package | 4mt | 6mt |
| | HYMP100R-40-CF5 | HYMP100R-60-CF5 |

Alternative torch packages can be configured using the configurator on page 12

Wear Parts

Cutting Tips

| Part No. | Description | Bore \varnothing A |
|----------|---------------------|----------------------|
| P220011 | Tip 100A Shielded | 1.5mm |
| P220064 | Tip 100A Unshielded | 1.5mm |

Retaining Caps

| Part No. | Description |
|-----------|---------------------|
| * HYP1230 | Retaining Cap, 100A |

Spare Parts

| Part No. | Description |
|----------|---|
| 1 | HYMP1201 HYMP-120 Machine Torch Head |
| 2 | SCP8128 Auto Torch Head Housing |
| 3 | SCPSP1-1 Screw Pack |
| 4 | SCP8120 Auto Handle |
| 5 | SCP8010 Plasma Plastic Insert |
| 6 | PB8110A Auto Handle Insert |
| 7 | PB8030A Auto Handle Lock Nut |
| 8 | PBL8017A Auto Handle Spring |
| 9 | *SCP8119C-40 -# Cable Assembly Complete x 4mt |
| | *SCP8119C-60 -# Cable Assembly Complete x 6mt |

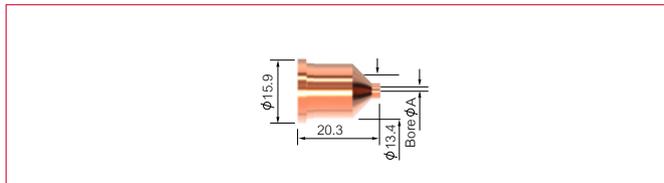
*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Cable Terminations Page 10
•Master Wear Parts Table Page 19-21
•Wear Parts Configuration Tables Page 22-23

Wear Parts

Cutting Tips

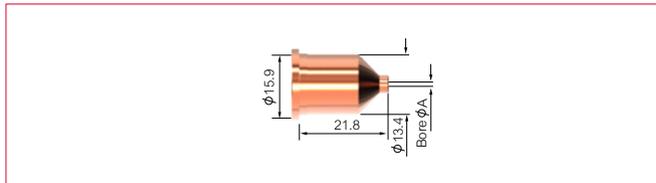
HYP 60

| Part No. | Description | Bore ϕ A |
|----------|----------------|---------------|
| P120931 | Tip 60A Shield | 1.2mm |



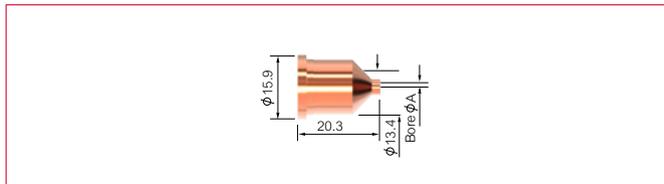
HYP/HYMP 100/100R

| Part No. | Description | Bore ϕ A |
|----------|-----------------|---------------|
| P220011 | Tip 100A Shield | 1.5mm |



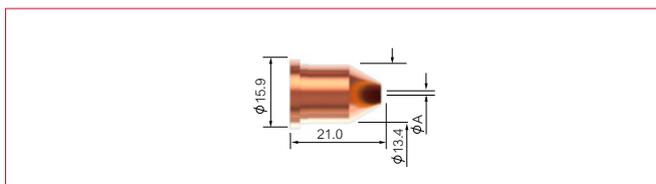
HYP 80/80R

| Part No. | Description | Bore ϕ A |
|----------|----------------|---------------|
| P120927 | Tip 80A Shield | 1.4mm |



HYMP 100R

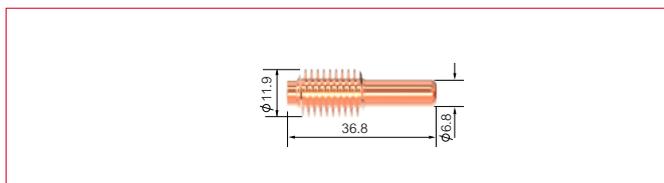
| Part No. | Description | Bore ϕ A |
|----------|---------------------|---------------|
| P220064 | Tip 100A Unshielded | 1.5mm |



Electrodes

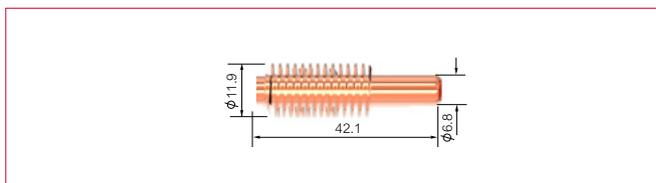
HYP 60/80/80R

| Part No. | Description |
|----------|------------------|
| P120926 | Electrode 40-80A |



HYP/HYMP 100/100R

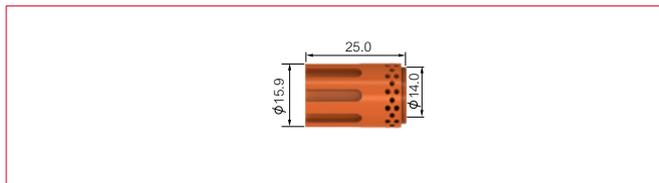
| Part No. | Description |
|----------|----------------|
| P220037 | Electrode 100A |



* Denotes torch package standard wear part set-up

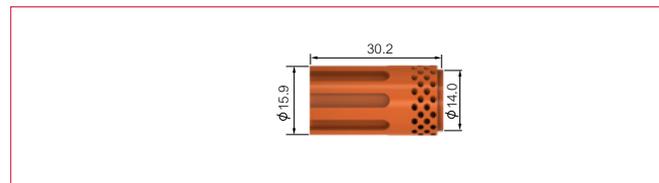
HYP 60/80/80R

| Part No. | Description |
|-----------|---------------------------------|
| * P120925 | Swirl Ring Maximum Life, 40-80A |



HYP/HYMP 100/100R

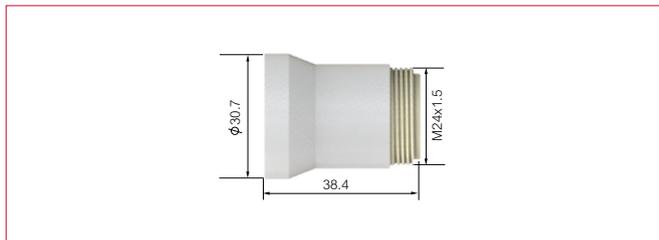
| Part No. | Description |
|-----------|-------------------------------|
| * P220051 | Swirl Ring Maximum Life, 100A |



Retaining Caps

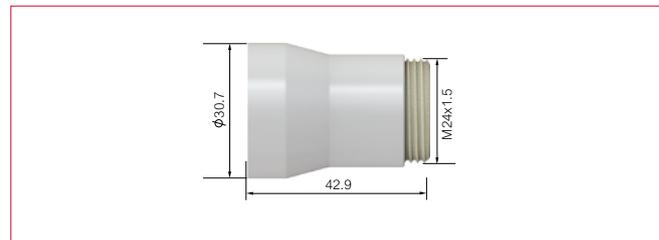
HYP 60/80/80R

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



HYP/HYMP 100/100R

| Part No. | Description |
|-----------|---------------------|
| * HYP1230 | Retaining Cap, 100A |



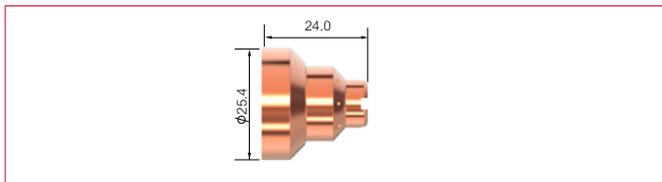
* Denotes torch package standard wear part set-up

Wear Parts

Shield Caps

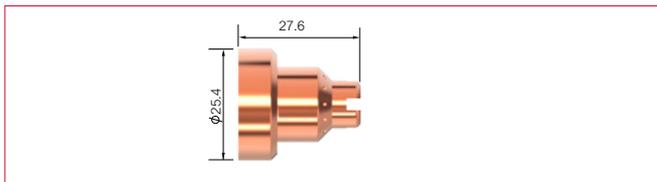
HYP 60/80/80R

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



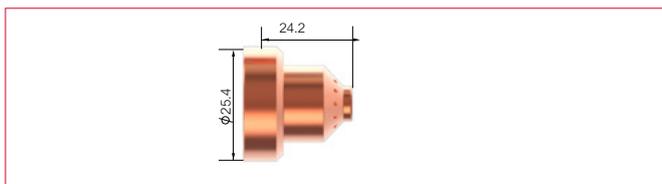
HYP 100/100R

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



HYMP 100R

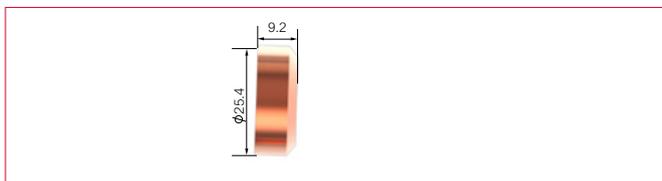
| Part No. | Description |
|----------|---------------------------|
| P220047 | Shield Cap, Machine, 100A |



Deflector

HYMP 100R

| Part No. | Description |
|----------|-------------|
| P120979 | Deflector |



* Denotes torch package standard wear part set-up

HYP 60 Series

Contact Cutting



* Wear parts part number and sizes are available on pages 19-21

HYP 80 Series

Contact Cutting



* Wear parts part number and sizes are available on pages 19-21

HYP 80R Series

Contact Cutting



* Wear parts part number and sizes are available on pages 19-21

HYP 100 Series

Contact Cutting



* Wear parts part number and sizes are available on pages 19-21

HYP 100R Series

Contact Cutting



| | | | | |
|--------------------|----------------|-----------------|---------------------|-------------------------|
| P220051 | P220037 | P220011 | HYP1230 | P220065 |
| Swirl Ring | Electrode 100A | Tip 100A Shield | Retaining Cap, 100A | Hand Shield, Hand, 100A |
| Maximum Life, 100A | | | | |

* Wear parts part number and sizes are available on pages 19-21

HYMP 100R Series

Shielded Parts



| | | | | |
|--------------------|----------------|-----------------|---------------------|----------------------------|
| P220051 | P220037 | P220011 | HYP1230 | P220047 |
| Swirl Ring | Electrode 100A | Tip 100A Shield | Retaining Cap, 100A | Shield, Cap, Machine, 100A |
| Maximum Life, 100A | | | | |

* Wear parts part number and sizes are available on pages 19-21

Unshielded Parts



| | | | | |
|--------------------|----------------|---------------------|---------------------|-----------|
| P220051 | P220037 | P220064 | HYP1230 | P120979 |
| Swirl Ring | Electrode 100A | Tip 100A Unshielded | Retaining Cap, 100A | Deflector |
| Maximum Life, 100A | | | | |

* Wear parts part number and sizes are available on pages 19-21



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

Tel: +86 531 88239823
Fax: +86 531 88239398
Website: www.parkertorchology.com
Email: info@parkertorchology.com
MPP034 / V.2019.06