



**Welding & Cutting Torch Technology**

## **Product Catalogue**

**CBR Series**



## About Us

Uniarc is part of a group of companies specializing in the production of Welding and Cutting torches.

With over 40 years experience, the group is positioned as a global leader at the heart of the welding torch industry.

Originally established in the United Kingdom in the 1980's, the company is now a fully-fledged, vertically integrated Chinese product innovator and manufacturer.

Our customers span a full cross section of the industry, ranging from general distribution to leading global original equipment manufacturers.

Our products are used in a broad cross-section of industrial sectors ranging from auto body repair to ship building.

Whether you need a standard off the shelf product or a customized branded option with your own colours, logos and packaging we have a one stop solution for your requirements.

Our team are here to help, contact us today if you need anymore information.



find out more [www.uniartorchology.com](http://www.uniartorchology.com)

## CBR Plasma Conents

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### Consumable parts

All wear parts are manufactured to the same specification as the OEM and are fully interchangeable.

### Shield caps

Offered in single and 2 piece with a variety of stand off attachments.

### Electrodes

Aircraft grade Hafnium ensures stable arc initiation and maximum electrode life.

### Cable supports

Cable supports are engineered to provide the correct combination of cable protection and ergonomic balance.

### Terminations

Terminations are offered in a "direct to machine" or central connector configuration.

### Heads

Plasma torch heads are very sophisticated components. High velocity gases, high voltage, extreme temperature and sometimes less than desirable air quality must all be precisely controlled.

The highest quality raw materials and processing techniques are utilized to produce high performance, maximum endurance torch heads.

### Safety System

#### Torch Body

A twin pin safety system ensures the torch shield cap is not in place.

#### Trigger

A patented "slide to operate" switch system guarantees safety and faultless operation.



off  on



# CBR Plasma Cutting Torch Range

Ratings: 70 Amp to 150 Amp

## Range Overview



### Technical Data

Cooling Method

Rating:

Cutting Thickness

Duty Cycle:

Gas

Gas Pressure

Gas Flow

Pilot

Ignition

Post Flow

### CBR 70

Air-Cooled

70A

15-20mm

60%

Air/N<sub>2</sub>

4.5-5.0 bar

65-75 psi

130 l/min

275 scfh

Electrode to Tip

HF

90 sec

### CBR 150

Air-Cooled

150A

35-50mm

60%

Air/N<sub>2</sub>

4.5-5.0 bar

65-75 psi

220 l/min

470 scfh

Electrode to Tip

HF

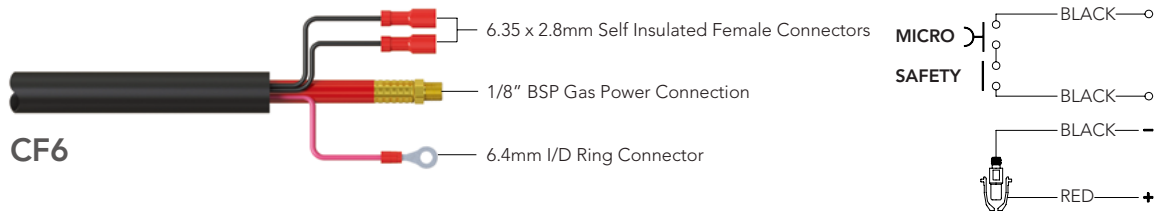
90 sec

Order Codes	4mt	CBR70-40-CF6	CBR150-40-CF6
	6mt	CBR70-60-CF6	CBR150-60-CF6

# CBR Plasma Cutting Torch Range

## Cable Terminations and Wiring Systems Explained

### Gas Power Connection

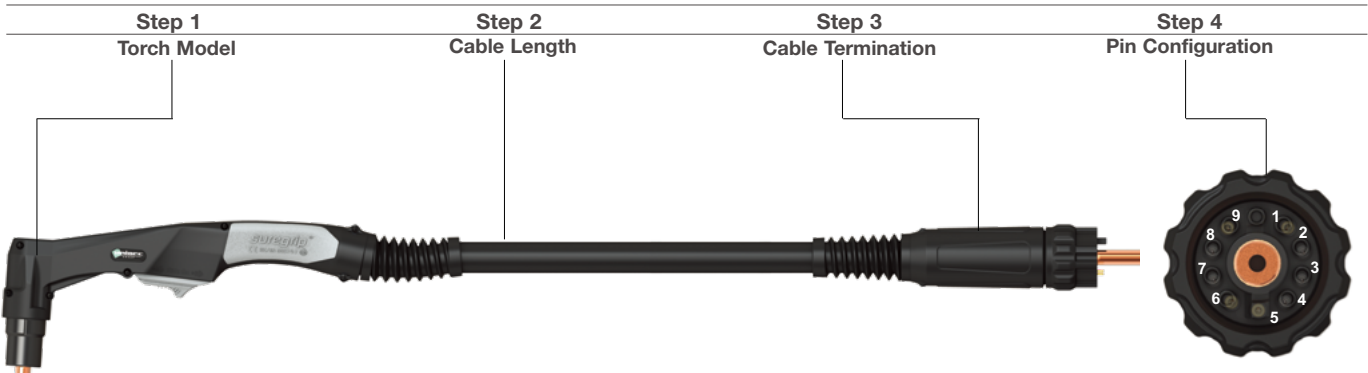


	Model	CBR70	CBR150
Termination	CF6	●	●
	CC1	●	●

● Denotes standard termination option

# CBR Plasma Cutting Torch Range

## Torch Package Configurator



NOTE: See page 6 for Cable Terminations explained

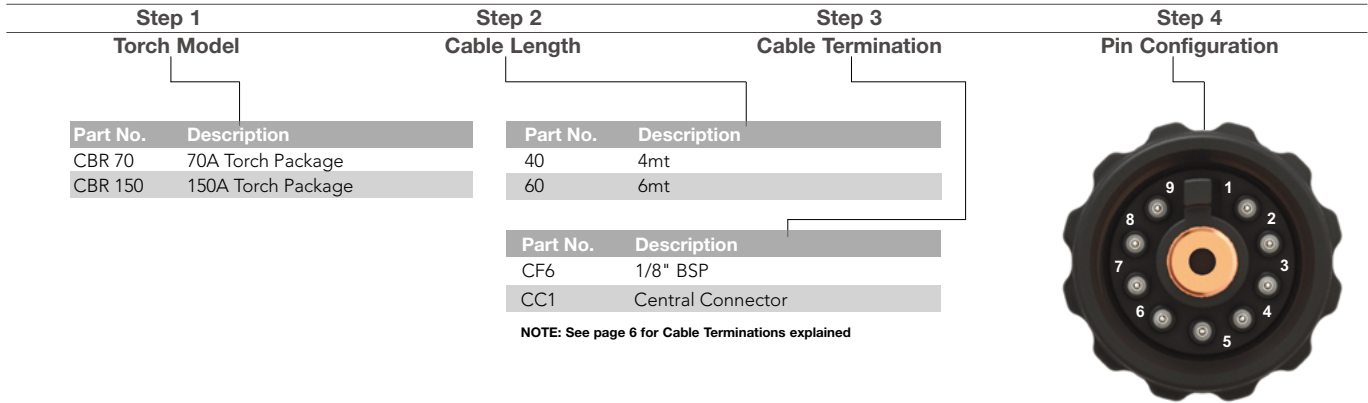
### Ordering Information

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: CBR 150-60-CF6

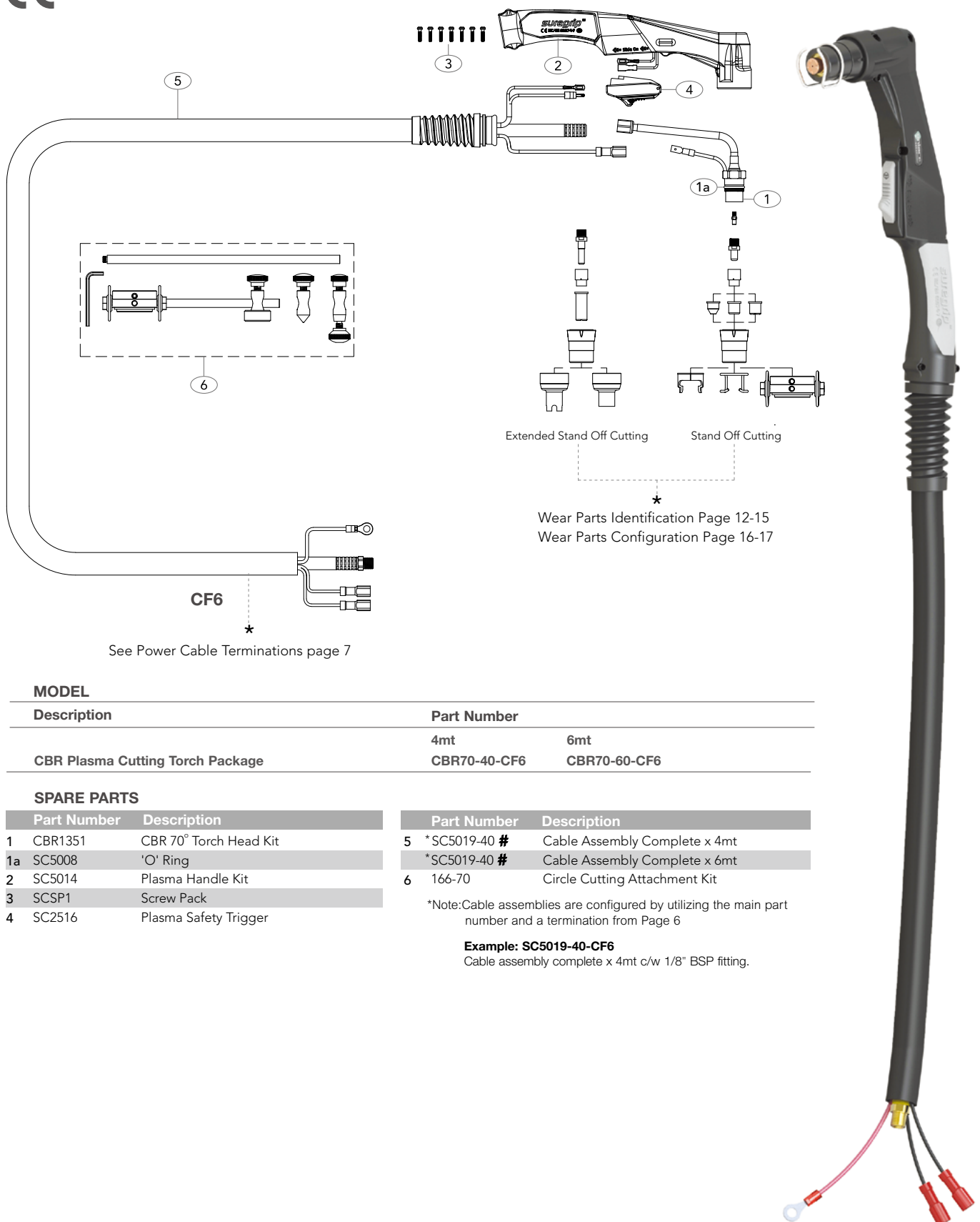
150 Torch Package x 6mt c/w seperate cables and 1/8" BSP fitting



NOTE: See page 6 for Cable Terminations explained

NOTE: See page 6 for Termination Configuration explained

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



#### MODEL

Description	Part Number	
	4mt	6mt
CBR Plasma Cutting Torch Package	CBR70-40-CF6	CBR70-60-CF6

#### SPARE PARTS

Part Number	Description	Part Number	Description
1	CBR1351 CBR 70° Torch Head Kit	5	*SC5019-40 # Cable Assembly Complete x 4mt
1a	SC5008 'O' Ring	*SC5019-40 #	Cable Assembly Complete x 6mt
2	SC5014 Plasma Handle Kit	6	166-70 Circle Cutting Attachment Kit
3	SCSP1 Screw Pack		
4	SC2516 Plasma Safety Trigger		

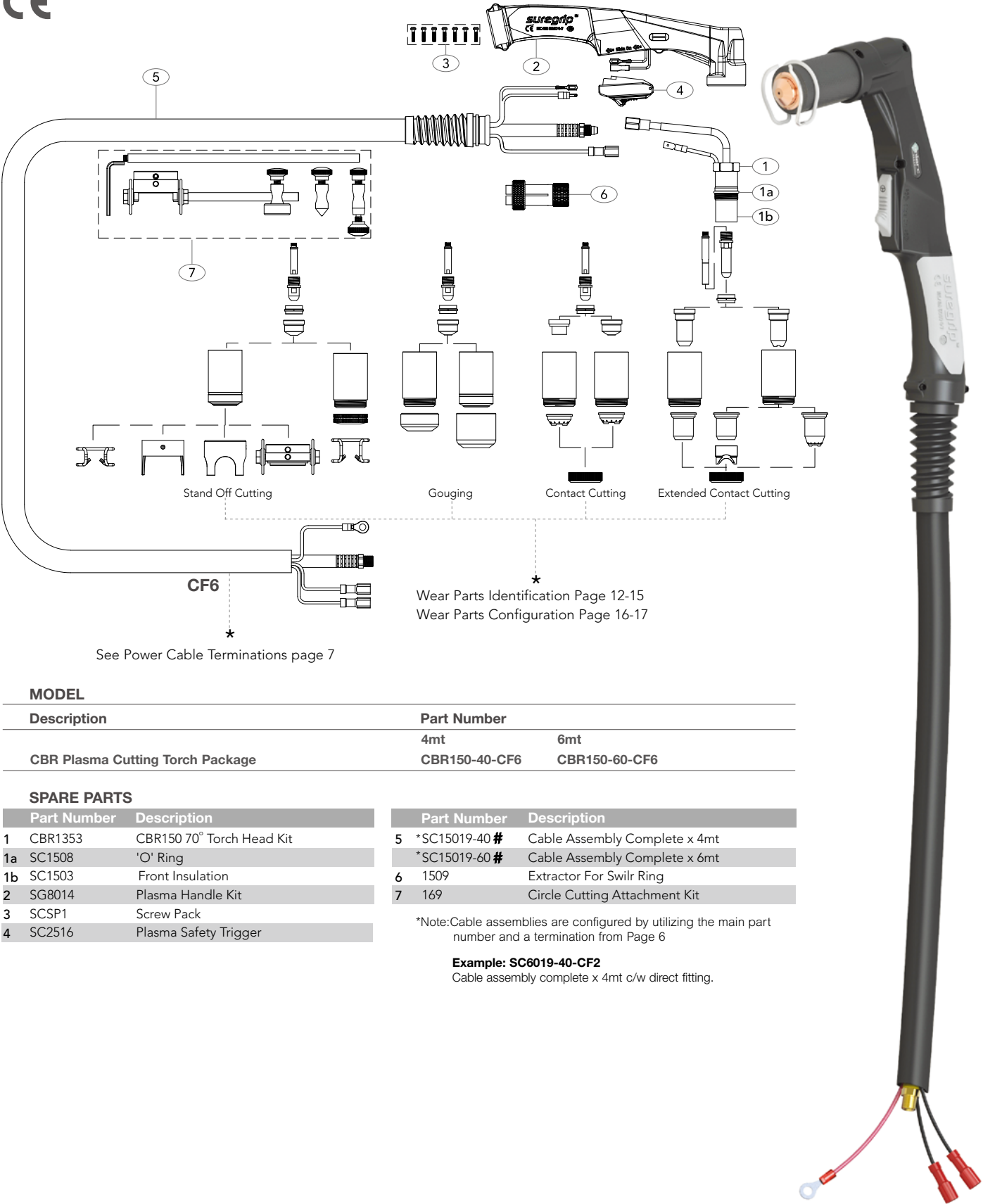
\*Note: Cable assemblies are configured by utilizing the main part number and a termination from Page 6

#### Example: SC5019-40-CF6

Cable assembly complete x 4mt c/w 1/8" BSP fitting.

# CBR150 Air-Cooled Cutting Torch Range

Rating: 150A Air/N<sub>2</sub> gas, @ 60% duty cycle.



## MODEL

Description	Part Number	
	4mt	6mt
CBR Plasma Cutting Torch Package	CBR150-40-CF6	CBR150-60-CF6

## SPARE PARTS

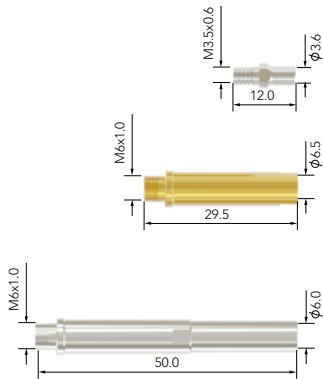
Part Number	Description	Part Number	Description
1	CBR1353 CBR150 70° Torch Head Kit	5	*SC15019-40 # Cable Assembly Complete x 4mt
1a	SC1508 'O' Ring		*SC15019-60 # Cable Assembly Complete x 6mt
1b	SC1503 Front Insulation	6	1509 Extractor For Swirl Ring
2	SG8014 Plasma Handle Kit	7	169 Circle Cutting Attachment Kit
3	SCSP1 Screw Pack		
4	SC2516 Plasma Safety Trigger		

\*Note: Cable assemblies are configured by utilizing the main part number and a termination from Page 6

**Example: SC6019-40-CF2**  
Cable assembly complete x 4mt c/w direct fitting.

All products conform to EN60974-7, and are RoHS2, REACH and WEEE compliant

## Wear Parts

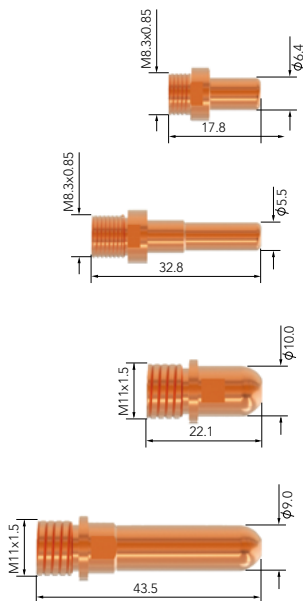


### Cooling Tubes

Part No.	Description	CBR70	CBR150
3.065204	Cooling Tube	●	●
1378	Cooling Tube	●	●
1378E	Cooling Tube Extended	●	●

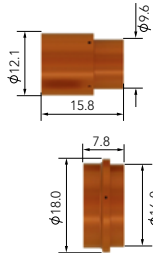
### Electrodes

Part No.	Description	CBR70	CBR150
1402	Electrode	●	●
1368	Electrode Extended	●	●
1376	Electrode	●	●
1517	Electrode Extended	●	●



● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts

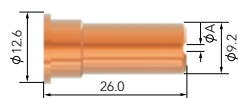
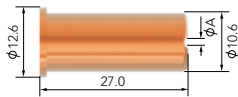
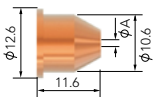
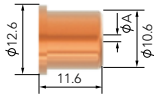
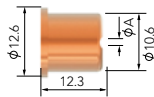
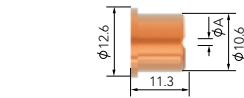


### Swirl Rings

Part No.	Description	CBR70	CBR150
SC1510	Swirl Ring	●	●
1377	Swirl Ring	●	●

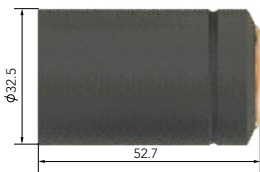
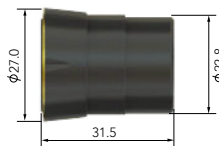
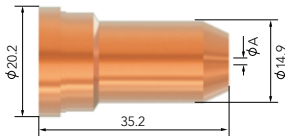
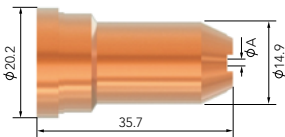
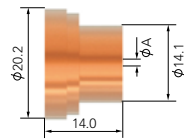
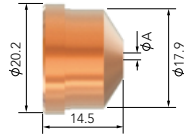
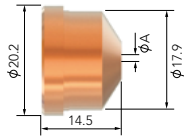
### Cutting Tips

Part No.	Description	Bore $\phi A$	Amps	CBR70	CBR150
1309	Cutting Tip	0.9mm	35A	●	●
1308	Cutting Tip	1.2mm	70A	●	●
1396	Cutting Tip Long Life	1.0mm	50A	●	●
1396-11	Cutting Tip Long Life	1.1mm	60A	●	●
1396-12	Cutting Tip Long Life	1.2mm	70A	●	●
1304F-10	Cutting Tip Flat	1.0mm	50A	●	●
1304F-12	Cutting Tip Flat	1.2mm	70A	●	●
1305	Cutting Tip Conical	1.0mm	50A	●	●
1305-12	Cutting Tip Conical	1.2mm	70A	●	●
1395	Cutting Tip Extended Long Life	1.0mm	50A	●	●
1395-11	Cutting Tip Extended Long Life	1.1mm	60A	●	●
1395-12	Cutting Tip Extended Long Life	1.2mm	70A	●	●
1366	Cutting Tip Extended	0.9mm	35A	●	●



● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts



## Cutting Tips

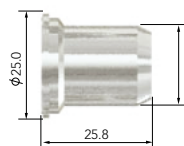
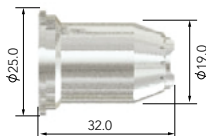
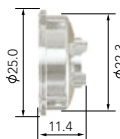
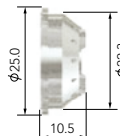
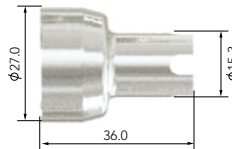
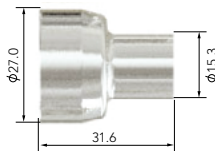
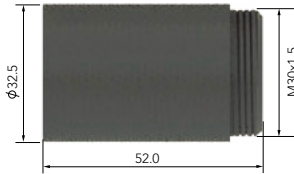
Part No.	Description	Bore ØA	Amps	CBR70	CBR150
1371	Cutting Tip Long Life	1.1mm	60A	●	●
1372	Cutting Tip Long Life	1.35mm	90A	●	●
1373	Cutting Tip Long Life	1.6mm	120A	●	●
1374	Cutting Tip Long Life	1.8mm	150A	●	●
1375	Gouging Tip	3.0mm	150A	●	●
1371C-13	Cutting Tip Contact	1.35mm	90A	●	●
1371C-16	Cutting Tip Contact	1.6mm	120A	●	●
1371C-18	Cutting Tip Contact	1.8mm	150A	●	●
1369	Cutting Tip Extended	1.1mm	60A	●	●
1369-13	Cutting Tip Extended	1.35mm	90A	●	●
1369-16	Cutting Tip Extended	1.6mm	120A	●	●
1369-18	Cutting Tip Extended	1.8mm	150A	●	●

## Retaining Caps

Part No.	Description	CBR70	CBR150
5.710.171	Retaining Cap	●	●
1389	Retaining Cap	●	●

● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts



### Shield Cap Bodies

Part No.	Description	CBR70	CBR150
1389-C	Shield Cap Body	●	●
1389-L	Shield Cap Body Max.Life	●	●

### Shield Caps

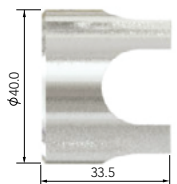
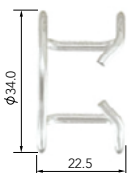
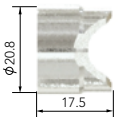
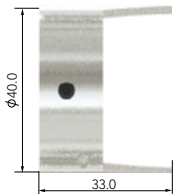
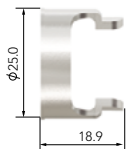
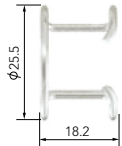
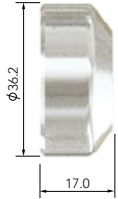
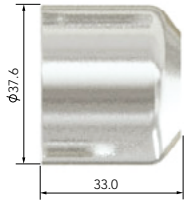
Part No.	Description	CBR70	CBR150
1394S	Shield Cap Hand	●	●

### Spacers for Contact Cutting

Part No.	Description	CBR70	CBR150
1394C	Spacer Contact Cutting, Hand	●	●
1408C	Spacer Contact Cutting	●	●
1408C1	Spacer Contact Cutting	●	●
SC1541	Spacer Contact Cutting	●	●
SC1540	Spacer Contact Cutting	●	●

● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts



### Spacers for Gouging

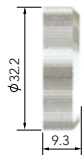
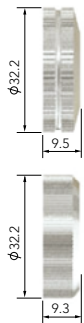
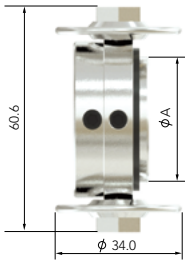
Part No.	Description	CBR70	CBR150
1406	Spacer Gouging		
1408G	Spacer Gouging		

### Spacer Springs

Part No.	Description	CBR70	CBR150
1394	Spacer Spring		
1394-150	Spacer Spring		
1405	Spacer Double Pointed		
1408	Spacer Double Pointed		
1408CE	Spacer Extended Tips High Amp		
1386	Spacer Spring		
CV0014	Spacer Crown		

● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts




### Cutting Buggies

Part No.	Description	ØA	CBR70	CBR150
154-70	Cutting Buggy	Ø 23.3	●	●
155	Cutting Buggy	Ø 32.9	●	●

### Locking Nuts

Part No.	Description	CBR70	CBR150
1389CN	Spring Holder Protection Nut	●	●
1408LN	Locking Nut	●	●

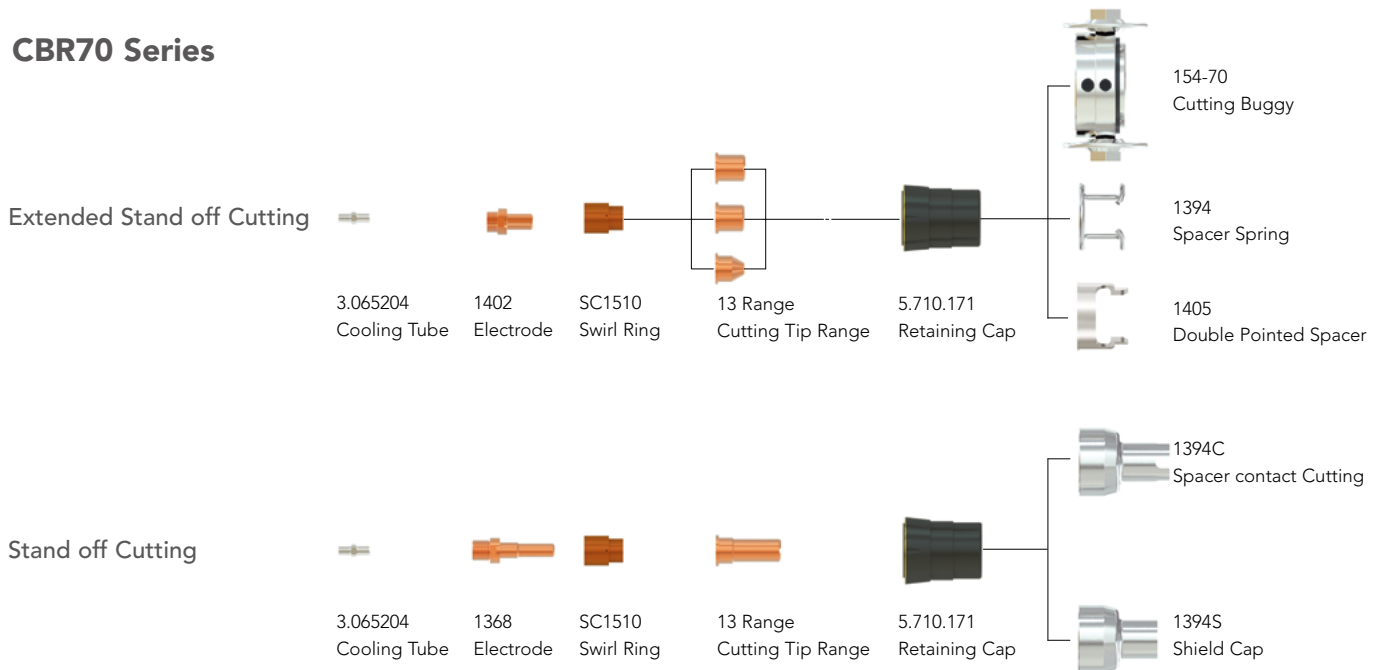
### Circle / Cutting Attachment Kits

Item	Part No.	Description	CBR70	CBR150
				
166-70		Circle / Cutting Attachment Kit	●	●
169		Circle / Cutting Attachment Kit	●	●

● Standard wear part range    ● Torch package standard wear part set-up

## Wear Parts Configuration Tables

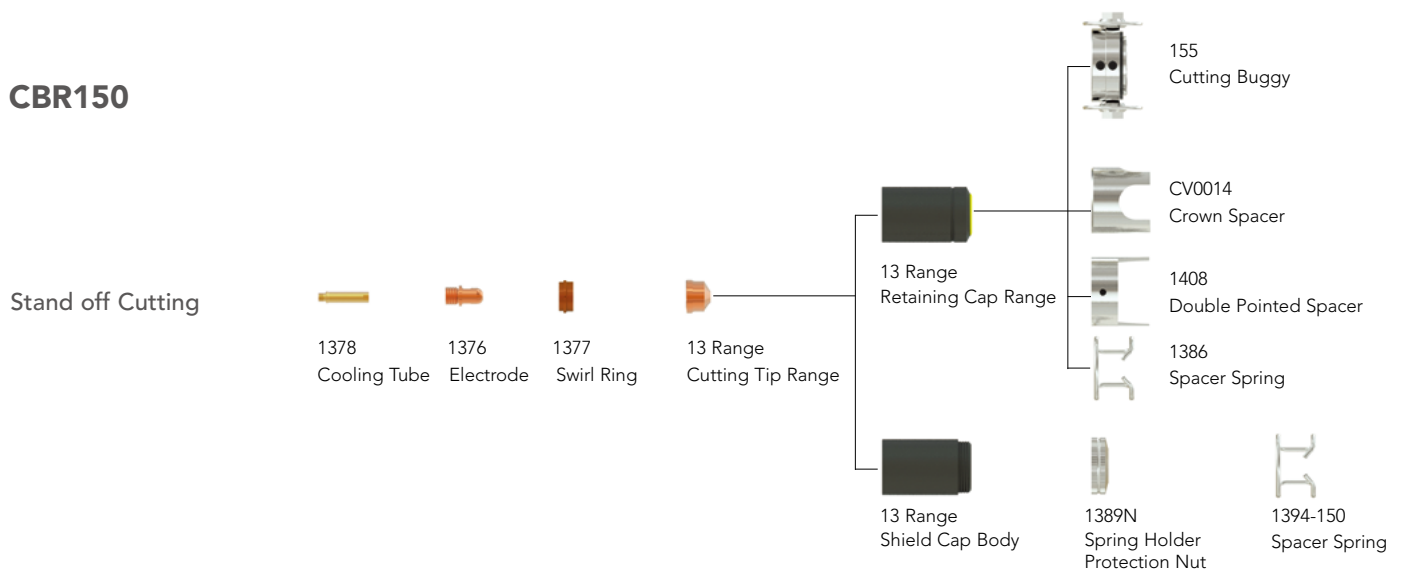
### CBR70 Series



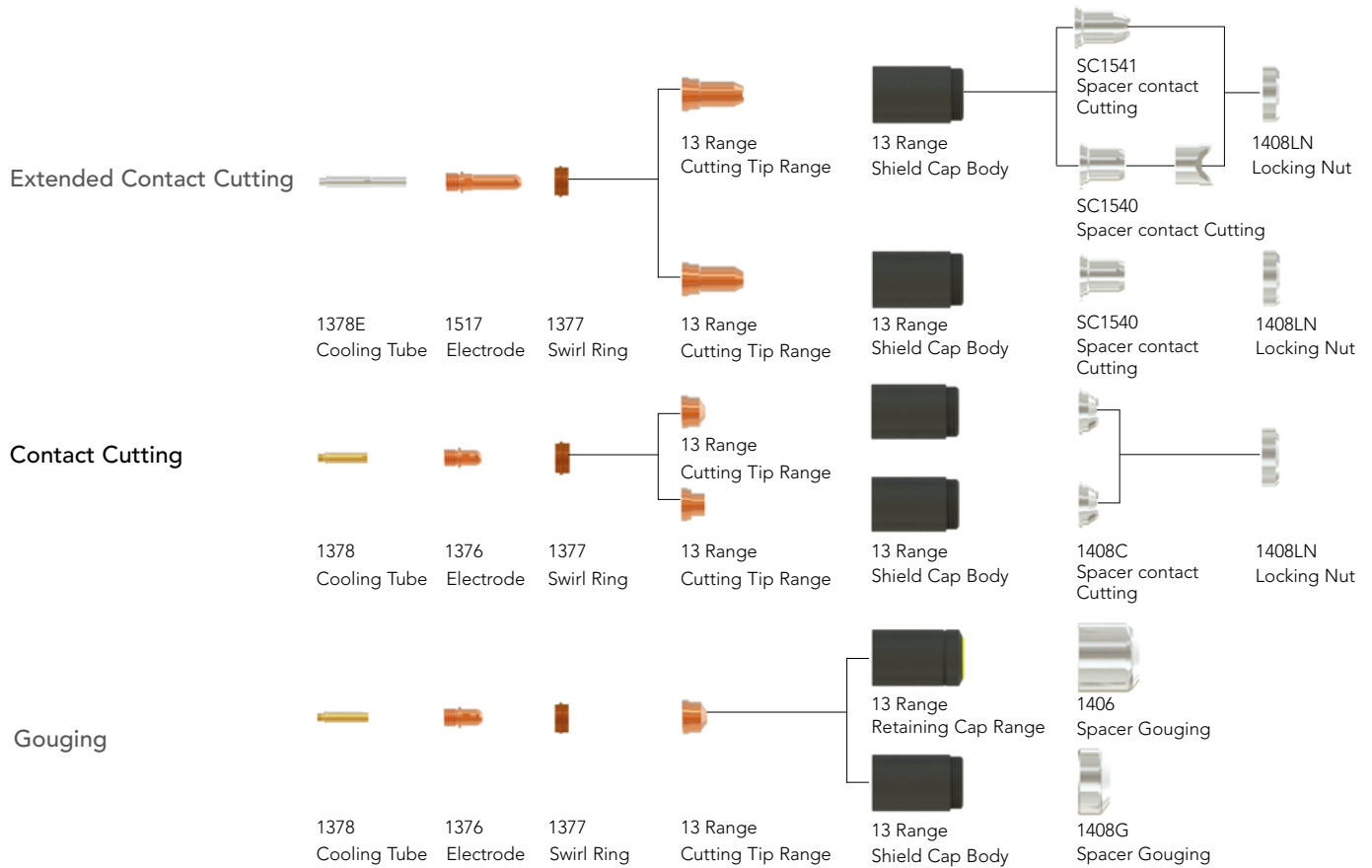
\*Wear Parts part number and sizes are available on pages 10-17

## Wear Parts Configuration Tables

### CBR150



## Wear Parts Configuration Tables



\*Wear Parts part number and sizes are available on pages 10-17

## Welding & Cutting Torch Technology

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