

## Cutting Tips



### Oxy/Acetylene

These two piece tips are very popular. Their flame characteristics, plus the ease of cleaning, make them ideal for Plumbers, Panel Beaters and other Contractors.

#### To suit 362 Cutting Att.

	Size	Precision Series
3690	00AC	Cuts 0-6mm Steel
3690	OAC	Cuts 6-13mm Steel
3690	1AC	Cuts 13-25mm Steel
3690	2AC	Cuts 25-75mm Steel

Packaging for show room display



### Oxy/Acetylene

This Professional tip offers exceptionally quick starting for the operator. Combined with the ability to pull apart for cleaning. The flat seating allows easy reseating on-site with a rub with wet/dry - **a very unique product.** This flat seating tip greatly reduces the occurrence of tip popping. Precise gas flutes control the amount of gas being used.

#### To suit 492 Cutt.Att., 142 & 624L Torches

	Size	Professional Series
6290	000	Cuts 0-5mm Steel (One pce copper)
	00AC	Cuts 5-10mm Steel
	0AC	Cuts 10-15mm Steel
	1AC	Cuts 15-25mm Steel
	2AC	Cuts 25-50mm Steel
	3AC	Cuts 50-100mm Steel
	4AC	Cuts 100-175mm Steel
	5AC	Cuts 175-250mm Steel
	6AC	Cuts 250-300mm Steel



**NOTE:** Standard 5mm Hose does limit good cutting to 100mm. For thicker steel, use larger diameter Hose.

## Cutting Tips

### Oxy/Propane/LPG/Natural Gas

Opens up avenues for the Contractor who is using LPG/Propane as his fuel gas. A high performance product, which will give quick starts and quality cutting.



#### To suit 362 Cutting Attachment

	Size	Precision
3690	00P	Cuts 0-6mm Steel
3690	0P	Cuts 6-13mm Steel
3690	1P	Cuts 13-25mm Steel
3690	2P	Cuts 25-75mm Steel

### Professional Oxy/Propane/LPG

The design of these Tips is superb and adds a new dimension to cutting, using Oxy/ LPG, Propane, Natural Gas. Develops very **quick starts** and also **precise control** over the amount of gas used. Every Tip is flame is tested before leaving the factory.

#### To suit I492FHC, 492F Cutt. Att., 142F & 624FL.



#### Size Professional

000NX	Cuts 0- 5mm Steel
00NX	Cuts 5-10mm Steel
0NX	Cuts 10-15mm Steel
1NX	Cuts 15-25mm Steel
2NX	Cuts 25-50mm Steel
3NX	Cuts 50-75mm Steel
4NX	Cuts 75-150mm Steel
5NX	Cuts 150-200mm Steel
6NX	Cuts 200-300mm Steel

### Professional Oxy/Natural Gas

NFF Cutting tips specially designed for Natural gas use. Providing extra heat in the start up process.

1NFF	15-25mm
2NFF	25-50mm
3NFF	50-75mm
4NFF	75-150mm
5NFF	150-200mm
6NFF	200-300mm

## Heating Tips

### Oxy/Acetylene

Heating with Oxy /Acet is used in industry in many different applications. When using the J633 and above, that procedures and methods become critical. Contact **Harris** for advise.

We believe our heating tips are the hottest in the industry.



J633

#### Size

J63	2	Multi Flame Heating
J63	3	Multi Flame Heating
J63	4	Multi Flame Heating
J143	5	Multi Flame Heating

- NOTE:**
- 1) Tip is silver soldered to stainless steel Tip Tube. Comes as a complete item (J633 & J634, J1435).
  - 2) Size 2 (copper) suits E43 Mixers.
  - 3) Sizes 3 & 4 (as shown in photo) suit E243 Mixer only.
  - 4) J632 can be fitted to H192E Mixer by using 190111 Adaptor.
  - 5) J633,4 will cause some problems with 5mm hose - (restricts flow). Suggest 8/10mm hose and manifold Acetylene cylinders.
  - 6) J1435 requires 10mm Hose and manifold Acetylene cylinders.

### Professional Oxy/Propane

The shape, performance, and characteristics of the flame are effected/controlled in some way by the tip. Harris tips are designed and manufactured to give the very best flame. Our quality is assured, as every tip is flame tested.

#### Size

2290	1H	Multi Flame Oxy/Propane Heating Tip
2290	2H	Multi Flame Oxy/Propane Heating Tip
2290	3H	Multi Flame Oxy/Propane Heating Tip
2290	4H	Multi Flame Oxy/Propane Heating Tip
2290	5H	Multi Flame Oxy/Propane Heating Tip

- NOTE:**
- 1) Tip Tube 2393 is needed, as well as the correct Mixer - F43 Propane/LPG, B43N Natural Gas.
  - 2) Standard 5mm Hose limits size to 2290 1H, 2H, 3H.
  - 3) Enormous heat is available with the above range of Tips.

#### Size

H62	1P	Heating Tip
H62	2P	Heating Tip
H62	3P	Heating Tip

**NOTE:** 1) Can attach to Professional Cutt Att. and Hand Cutting Torches.

23573 Nipple - Use with 2393 Tip Tube before fitting heating Tip for protection of the threads

23579 Adapts 2290 Heating Tips to Competitors S/S Tip Tubes



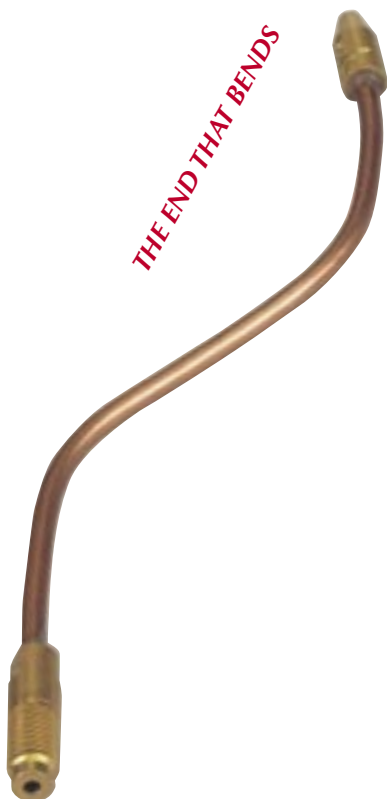
## Tip Tubes



Range, gas sealing and construction help to make these products an ideal addition to the safe use of gas equipment.

<b>D50C</b>	Designed for Precision Handle Fits H192E, H192S, B191, B193 Mixers plus 1390 Tips.
<b>8593</b>	Designed for Professional Fits E43, E43HC, B433, B436, B438 Mixers plus 1390 Tips.
<b>23932F</b>	Stainless Steel - 710mm
<b>23933F</b>	Stainless Steel - 380mm
<b>23935F</b>	Stainless Steel Straight 1040mm
<b>NOTE:</b>	23933F is the most popular size.

## Welding, Brazing Tips



### Oxygen Acetylene

		<i>Size Precision or Professional</i>	
0090	1		Flexible Welding/Brazing
0090	3		Flexible Welding/Brazing
0090	5		Flexible Welding/Brazing
0090	6		Flexible Welding/Brazing
0090	8		Flexible Welding/Brazing

**NOTE:** To suit H192E Mixer. Precision Series. Adaptor 430111 needed for E43, E43HC Mixers, Professional Series.

## Welding, Brazing Tips



The size of the thread is the main difference between the 5090 and 23A90 series

	Size	Precision
5090	1	Copper Swaged Welding/Brazing
5090	3	Copper Swaged Welding/Brazing
5090	5	Copper Swaged Welding/Brazing
5090	6	Copper Swaged Welding/Brazing
5090	8	Copper Swaged Welding/Brazing

- NOTE:**
- 1) To suit H192E Mixer. Part of Precision Series.
  - 2) Common sizes shown. Smaller sizes are available starting at 00 (ie Jewellery use).
  - 3) Precision is also known as Craftsman/Contractors when in kit form.



	Size	Classic/Professional
23A90	1	Copper Swaged Welding/Brazing
23A90	3	Copper Swaged Welding/Brazing
23A90	5	Copper Swaged Welding/Brazing
23A90	6	Copper Swaged Welding/Brazing
23A90	8	Copper Swaged Welding/Brazing
23A90	10	Copper Swaged Welding/Brazing

- NOTE:**
- 1) To suit E43, E43HC Mixers. Part of Professional Series.
  - 2) Shown are the most popular sizes. Other sizes (up to 23A90 15) are available on request and subject to stock holdings.

## Brazing Heating Tips

THE END THAT BENDS



### Brazing, Heating Tips

### Oxygen/*Propane/LPG/Natural Gas*

The shape, performance and characteristics of the flame are affected/controlled in some way by the tip. **Harris** tips are designed and manufactured to give the very best flame with every tip flame tested to ensure quality and consistency.

	<b>Size</b>	<b>Precision or Professional</b>
0090	2N	Flexible Brazing Tip
0090	4N	Flexible Brazing Tip
0090	6N	Flexible Brazing Tip
0090	8N	Flexible Brazing Tip
TH119		Twin Tip Holder - Ideal for 0090 Flexible

**NOTE:** To suit H192S, B191, B193 Mixer  
Adaptor 430111 needed to suit B433, B436, B438 Mixer

	<b>Size</b>	<b>Precision or Professional</b>
1390	3N	Screw-in Brazing
1390	5N	Screw-in Brazing
1390	6N	Screw-in Brazing
1390	8N	Screw-in Brazing
1390	10N	Screw-in Brazing

## Gouging Tips



OXY/ACET

This range of Gouging Tips gives the end user terrific scope for repair or weld preparation. The quick starting and speed is a real feature of the design. It is often said

**“The better the flame the better and easier the job”.**  
Never truer than with these tips.

### Oxy/Acetylene

To suit 492 Cutt. Att., 142& 623 Torches

Size	Precision or Professional
1G	Gouging 3 x 6mm
2G	Gouging 5 x 10mm
3G	Gouging 6 x 13mm

### Oxy/Propane/LPG/Natural Gas

To suit 1492FHC, 492F Cutt. Att., 142& 623FLTorches

Size	Precision or Professional
1GG	Gouging 3 x 6mm
2GG	Gouging 5 x 10mm
3GG	Gouging 6 x 13mm



OXY/LPG

## Super Hi speed M. C. Tips Acetylene

Hi speed Acetylene machine cutting tips specifically designed to enhance profile cutting with Acetylene. Flat seating for less tip popping and ease of re-seating.

Cutting steel quickly is the aim in profile cutting. The quality of the flame is a major factor in the process. Harris engineers spend considerable energy in perfecting flame shape, resulting in higher speeds, quality cutting and reduced gas costs.



VAX

### Size

1VAX	Acetylene Hi-Speed Cuts 0 - 8mm
2VAX	Acetylene Hi-Speed Cuts 8 - 15mm
3VAX	Acetylene Hi-Speed Cuts 15 - 35mm
4VAX	Acetylene Hi-Speed Cuts 35 - 75mm
5VAX	Acetylene Hi-Speed Cuts 75 - 150mm
6VAX	Acetylene Hi-Speed Cuts 150 - 200mm

## Super Hi speed M. C. Tips

### Propane, LPG, Natural Gas



The **Harris** tip has become accepted world wide as "The Tip" for profile machine cutting. Flame shape, gas consumption, flame consistency and flat seating make this range an ideal choice for any business.

#### Size

5/0VVC	Hi-Speed Cuts	0 - 4mm
4/0VVC	Hi-Speed Cuts	4 - 6mm
3/0VVC	Hi-Speed Cuts	6 - 9mm
2/0VVC	Hi-Speed Cuts	9 - 12.5mm

**NOTE:** The sizing of the above Tips is expressed in this manner rather than showing them as - eg. 6290-00000VVC. Tip and box only display size.

#### Size

0VVC	Hi-Speed Cuts	12.5 - 20mm
0.5VVC	Hi-Speed Cuts	20 - 35mm
1VVC	Hi-Speed Cuts	35 - 60mm
1.5VVC	Hi-Speed Cuts	60 - 75mm
2VVC	Hi-Speed Cuts	75 - 125mm
2.5VVC	Hi-Speed Cuts	125 - 150mm
3VVC	Hi-Speed Cuts	150 - 175mm
4VVC	Hi-Speed Cuts	175 - 200mm
5VVC	Hi-Speed Cuts	200 - 225mm
5.5VVC	Hi-Speed Cuts	225 - 250mm

#### Heavy Duty

6NH	Heavy Duty Cuts	250 - 275mm
7NH	Heavy Duty Cuts	275 - 300mm
8NH	Heavy Duty Cuts	300-380mm

### TRAINING

Harris can conduct a professional, structured, profile cutting training course which will improve

- ▶ **Quality**
- ▶ **Increase Speed**
- ▶ **Lower Operation Costs**
- ▶ **Increase Staff Morale**

For further details contact your "local" Harris Distributor



## Specialty Tips



These Tips have many uses and are an added benefit to the **Harris** Range. For many end users, rivet cutting, used for cutting brackets from bulkheads; rivet washing for a straight gouging tip, etc can enhance the use of the torch as a tool. Our 8" long Tips, are ideal in hard to reach places or in Profile machines cutting 'H' Beams.

### To suit Professional Series

Size	Professional Series
6290 NFW	Rivet Washing
6290 2NFFR	Propane Rivet Cutting
6290 R	Acetylene Rivet Cutting
1501051	Professional Size 4NFFL 8" long Tip
1501053	Professional Size 2NFFL 8" long Tip

## Flashguards



Shown attached to a handle

Flashguards screw onto the end of a handle/blowpipe/torch

### Flashguards/Checkvalves/Non-Return Valves

883AL1	Fuel Gas 5/8" Inlet/Outlet suit standard Australian Torches - all makes
883AR1	Oxy Gas 5/8" Inlet/Outlet Suit standard Australian Torches - all makes
883AL	Fuel Gas 5/8" Hose End 9/16" Suit 432, 623, 142, 196.
883AR	Oxy Gas 5/8" Hose End 9/16" Suit 432, 623, 142, 196.
C98V2	Oxy Hi Flow valve for cutting Oxy on Machine Cutting Torches