

3690

MODEL

1YR
WARRANTY

GENERAL PREHEAT SINGLE-PIECE HAND CUTTING TIPS

MODEL SHOWN:
3690

DESCRIPTION

Acetylene cutting tips specifically used with the light duty Harris Model 36 series of cutting attachments.

DETAILS

Construction: One-piece

Preheat Type: General

Where Used: HVAC, maintenance, metal art, etc.

Compatible Equipment:
C-9 Tip cleaner P/N: 9000156



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG	FUEL SCFH	CUTTING DRILL SIZE
1500650	3690-0	¼" - ½"	20 - 25	70 - 80	5	10 - 15	NO. 60
1500660	3690-1	½" - 1"	25 - 40	95 - 105	5	15 - 25	NO. 56
1500670	3690-2	1" - 3"	40 - 60	180 - 215	5	20 - 30	NO. 52

AC 3690

MODEL

1YR
WARRANTY

HEAVY PREHEAT TWO-PIECE HAND CUTTING TIPS

MODEL SHOWN:
3690AC

DESCRIPTION

Acetylene cutting tips specifically used with the Harris Model 36 cutting attachment.

DETAILS

Construction: Two-piece

Preheat Type: Heavy

Where Used: HVAC, maintenance, metal art, etc.

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG	FUEL SCFH	DRILL CUT SIZE
36900AC	3690-0AC	¼" - ½"	20-25	70-85	5	10-15	NO. 60
36901AC	3690-1AC	½" - 1"	25-45	95-105	5	15-25	NO. 56
36902AC	3690-2AC	1" - 2"	40-60	180-215	5	20-30	NO. 52

6290

MODEL



GENERAL PREHEAT SINGLE PIECE HAND CUTTING TIPS

MODEL SHOWN:
6290

DESCRIPTION

A single-piece acetylene cutting tip for cutting relatively clean steel.

DETAILS

Construction: One-piece

Preheat Type: General

Where Used: Fabrication, maintenance, etc.

Compatible Equipment:
C-9 Tip cleaner P/N: 9000156



PART NO.	SIZE	DEPTH OF CUT	O ₂ PSIG	TOTAL O ₂ SCFH	ACETYLENE FUEL PSIG	FUEL SCFH	CUTTING DRILL SIZE
1500810	000	Light gauge to 3/16"	15 - 20	35 - 40	5 - 15	10 - 15	NO. 68
1500820	00	3/16" - 1/8"	20 - 25	45 - 50	5 - 15	10 - 15	NO. 64
1500830	0	3/8" - 1/2"	35 - 40	45 - 50	5 - 15	10 - 15	NO. 60
1500840	1	5/8" - 1"	35 - 40	100 - 110	5 - 15	15 - 25	NO. 56
1500850	2	1" - 2"	40 - 45	180 - 195	10 - 15	20 - 30	NO. 52
1500860	3	2" - 3"	45 - 50	270 - 290	10 - 15	20 - 35	NO. 48
1500870*	4	3" - 6"	50 - 75	450 - 600	10 - 15	25 - 40	NO. 42

*To provide proper gas flow, use 3/8" 1D hose for size 4 tip and larger

6290-S

MODEL



HEAVY PREHEAT SINGLE PIECE TIPS

MODEL SHOWN:
6290-S

DESCRIPTION

A single-piece acetylene tip with a heavy preheat to facilitate cutting steel that is painted, rusted or has a heavily scaled surface.

DETAILS

Construction: One-piece

Preheat Type: Heavy

Where Used: Demolition, maintenance, repair, etc.

Compatible Equipment:
C-9 Tip cleaner P/N: 9000156



PART NO.	SIZE	DEPTH OF CUT	O ₂ PSIG	TOTAL O ₂ SCFH	ACETYLENE FUEL PSIG	FUEL SCFH	CUTTING DRILL SIZE
1501470	1S	3/8" - 1"	35 - 40	100 - 110	5 - 15	15 - 25	NO. 56
1501480	2S	1" - 2"	40 - 45	190 - 205	5 - 15	20 - 30	NO. 52
1501490	3S	2" - 3"	45 - 50	285 - 305	5 - 15	20 - 35	NO. 48
1501500	4S	3" - 6"	50 - 75	465 - 615	10 - 15	25 - 40	NO. 42
1501510*	5S	6" - 8"	65 - 80	700 - 850	10 - 15	35 - 40	NO. 35
1501520*	6S	8" - 12"	70 - 90	960 - 1160	10 - 15	40 - 60	NO. 30

*To provide proper gas flow, use 3/8" ID hose for Size 4 tip and larger.



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TIPS

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AC 6290 MODEL



HEAVY PREHEAT TWO-PIECE TIPS

MODEL SHOWN:
6290-AC

DESCRIPTION

A two-piece acetylene tip with a heavy preheat to facilitate cutting steel that is painted, rusted or has a heavily scaled surface.

DETAILS

Construction: Two-piece

Preheat Type: Heavy

Where Used: Demolition, maintenance acetylene machine cutting

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	SIZE	DEPTH OF CUT	O ₂ PSIG	TOTAL O ₂ SCFH	ACETYLENE FUEL PSIG	FUEL SCFH	CUTTING DRILL SIZE
1502170	00AC	3/16" - 3/8"	15 - 30	38 - 55	8 - 15	9 - 18	NO. 64
1502171	0AC	3/8" - 5/8"	20 - 35	45 - 73	8 - 15	9 - 18	NO. 60
1502172	1AC	5/8" - 1"	30 - 50	73 - 128	8 - 15	18 - 36	NO. 56
1502173	2AC	1" - 2"	40 - 65	161 - 252	8 - 15	18 - 36	NO. 53
1502174	3AC	2" - 4"	40 - 65	196 - 287	8 - 15	18 - 36	NO. 52
1502175	4AC	4" - 7"	50 - 80	338 - 534	8 - 15	18 - 36	NO. 42
1502176*	5AC	7" - 10"	65 - 80	494 - 625	8 - 15	32 - 54	NO. 35
1502177	6AC	10" - 12"	70 - 95	565 - 731	8 - 15	32 - 54	NO. 31

*To provide proper gas flow, use 3/8" ID hose for Size 4 tip and larger.

TWO-PIECE OXY-ACETYLENE CUTTING TIPS

Commonly one-piece tips are for oxy-acetylene cutting and two-piece tips are for cutting with alternate fuels such as natural gas, propane and propylene. Harris, however, offers both one and two-piece tips for acetylene cutting.

WHAT ARE THE ADVANTAGES OF HARRIS AC TWO-PIECE ACETYLENE TIPS?

Two-piece acetylene tips are less expensive, easier to clean, and produce a special high pre-heat for fast cutting of dirty, scaled and/or heavily rusted plate. AC tips are also highly recommended for acetylene machine cutting.

Available for both Harris and Victor® style torches.

3690-P

MODEL



GENERAL PREHEAT TWO PIECE HAND CUTTING TIPS

MODEL SHOWN:
3690-P

DESCRIPTION

Propane/natural gas cutting tips specifically designed for Harris Model 36 series cutting attachments.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: HVAC, metal art, maintenance, etc.

Compatible Equipment:

E-9 Tip cleaner P/N: 9000160



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG		FUEL SCFH	CUTTING DRILL SIZE
					EQUAL	INJECTOR OR LOW		
1500600	00P	TO ¼"	15 - 30	50 - 60	5	4 oz. - 2 lbs.	8.7	NO. 64
1500610	0P	¼" - ½"	20 - 25	65 - 75	5	4 oz. - 2 lbs.	8.7	NO. 60
1500620	1P	½" - 1"	25 - 45	85 - 105	5	4 oz. - 2 lbs.	8.7	NO. 56

N&NX

6290

MODEL



GENERAL PREHEAT TWO-PIECE HAND CUTTING TIPS

MODEL SHOWN:
6290-NX

DESCRIPTION

Propane/natural gas cutting tips for the most popular Harris hand torches, machine torches and cutting attachments. Features a general preheat for a relatively clean plate.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: Steel fabricating, demolition, shipbuilding, etc.

Compatible Equipment:

E-9 Tip cleaner P/N: 9000160



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG		FUEL SCFH	CUTTING DRILL SIZE
					EQUAL	INJECTOR OR LOW		
1500970	000N	LIGHT GAUGE	15 - 30	50 - 60	5 - 15	4 oz. - 2 lbs.	7.5	NO. 68
1501200	000NX	LIGHT GAUGE ¾"	10 - 30	50 - 60	5 - 15	4 oz. - 2 lbs.	7.5	NO. 68
1501210	00NX	¾" - ⅝"	20 - 30	65 - 75	5 - 15	4 oz. - 2 lbs.	7.5	NO. 64
1501220	0NX	⅝" - ⅜"	20 - 30	85 - 100	5 - 15	4 oz. - 2 lbs.	7.5	NO. 60
1501230	1NX	⅜" - 1"	35 - 50	100 - 135	5 - 15	4 oz. - 2 lbs.	8.7	NO. 56
1501240	2NX	1" - 2"	40 - 55	200 - 250	5 - 15	4 oz. - 2 lbs.	10	NO. 52
1501250	3NX	2" - 3"	45 - 60	290 - 365	5 - 15	4 oz. - 2 lbs.	10	NO. 48
1501260	4NX	3" - 6"	50 - 70	475 - 625	5 - 15	4 oz. - 2 lbs.	12.5	NO. 42
1501270	5NX	6" - 8"	65 - 80	710 - 860	5 - 15	4 oz. - 2 lbs.	15	NO. 35
1501280	6NX	8" - 12"	70 - 90	970 - 1100	5 - 15	4 oz. - 2 lbs.	17.5	NO. 30



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TIPS

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NFF**6290****MODEL****HEAVY PREHEAT TWO PIECE HAND CUTTING TIPS****MODEL SHOWN:
6290-NFF****DESCRIPTION**

Propane/natural gas cutting tips with a heavy preheat for hand cutting steel with rusted, painted or heavily scaled surfaces.

DETAILS**Construction:** Two-piece**Preheat Type:** Heavy**Where Used:** Demolition, maintenance, etc.**Compatible Equipment:**

E-9 Tip cleaner P/N: 9000160



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG*		FUEL SCFH	CUTTING DRILL SIZE
					EQUAL	INJECTOR		
1501020	1NFF	TO 5/8"	20 - 35	115 - 140	5 - 15	4 oz. - 2 lbs.	17.5	NO. 56
1501030	2NFF	5/8" - 2"	30 - 55	170 - 230	5 - 15	4 oz. - 2 lbs.	17.5	NO. 53
1501040	3NFF	2" - 4"	45 - 65	355 - 420	5 - 15	4 oz. - 2 lbs.	17.5	NO. 47
1501050	4NFF	4" - 7"	55 - 75	520 - 645	5 - 15	4 oz. - 2 lbs.	17.5	NO. 42
1501060	5NFF	7" - 10"	60 - 80	660 - 870	10 - 15	4 oz. - 2 lbs.	17.5	NO. 35
1501070	6NFF	10" - 11"	80 - 90	870 - 1020	10 - 15	4 oz. - 2 lbs.	17.5	NO. 31
1501080	7NFF	12" - 13"	80 - 90	1050 - 1205	10 - 15	4 oz. - 2 lbs.	17.5	NO. 30

*High fuel PSIG - "E" or positive pressure torches

NXP**6290****MODEL****GENERAL PREHEAT TWO PIECE HAND CUTTING TIPS****MODEL SHOWN:
6290-NXP****DESCRIPTION**

A general preheat hand cutting tip designed for long life and excellent performance when using propylene gas.

DETAILS**Construction:** Two-piece**Preheat Type:** General**Where Used:** Fabrication, ship building, etc.**Compatible Equipment:**

E-9 Tip cleaner P/N: 9000160



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG*		FUEL SCFH	CUTTING DRILL SIZE
					EQUAL	INJECTOR		
1502150	000NXP	LIGHT GAUGE - 3/16"	15 - 30	20 - 30	5 - 15	4 oz. - 2 lbs.	11.5	NO. 68
1502152	00NXP	3/16" - 3/8"	20 - 30	30 - 40	5 - 15	4 oz. - 2 lbs.	11.5	NO. 64
1502154	0NXP	3/8" - 5/8"	30 - 40	50 - 65	5 - 15	4 oz. - 2 lbs.	11.5	NO. 60
1502156	1NXP	5/8" - 1"	35 - 50	75 - 100	5 - 15	4 oz. - 2 lbs.	11.5	NO. 56
1502158	2NXP	1" - 2"	40 - 55	160 - 210	5 - 15	4 oz. - 2 lbs.	11.5	NO. 52
1502160	3NXP	2" - 3"	45 - 60	250 - 325	5 - 15	4 oz. - 2 lbs.	11.5	NO. 48
1502162	4NXP	3" - 6"	50 - 75	425 - 575	5 - 15	4 oz. - 2 lbs.	11.5	NO. 42
1502164	5NXP	6" - 8"	65 - 80	650 - 800	5 - 15	4 oz. - 2 lbs.	11.5	NO. 35
1502166	6NXP	8" - 12"	70 - 90	900 - 1100	5 - 15	4 oz. - 2 lbs.	11.5	NO. 30

*High fuel PSIG - "E" or positive pressure torches

V1-101

MODEL



V-SERIES® GENERAL PREHEAT ACETYLENE SINGLE PIECE HAND CUTTING TIP

MODEL SHOWN:
V1-101

DESCRIPTION

A single piece acetylene hand cutting tip for relatively clean steel. The V1-101 is compatible with V-Series and Victor® style torches.

DETAILS

Construction: One-piece

Preheat Type: General

Where Used: Metal fabrication, shipbuilding

Compatible Equipment:
C9 Tip cleaner P/N: 9000156



PART NO.	TIP SIZE	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	ACETYLENE PSIG	
1502088	000	LIGHT GAUGE to 1/8"	20-30	5	NO.70
1502089	00	1/8" - 5/16"	20-30	5	NO.69
1502090	0	5/16" - 5/8"	30-40	7	NO.61
1502091	1	5/8" - 1"	40-50	7	NO.56
1502092	2	1" - 2"	45-55	8	NO.53
1502093	3	2" - 3"	50-60	9	NO.50
1502094	4	3" - 4"	60-75	10	NO.46
1502095	5	4" - 6"	70-80	12	NO.39
1502096	6	6"	75-80	15	NO.31

*For best performance use 3/8" I.D. hose for tip sizes 6 and larger



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TIPS

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AC V1-101A

MODEL



V-SERIES® HEAVY PREHEAT ACETYLENE TWO PIECE HAND / MACHINE CUTTING TIP

MODEL SHOWN:
V1-101AC

DESCRIPTION

A two piece acetylene handcutting tip for scaled, painted or rusted plate. The V1-101AC is compatible with V-Series and Victor® style torches.

DETAILS

Construction: Two piece

Preheat Type: Heavy

Where Used: Construction, demolition maintenance

Compatible Equipment:

E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	ACETYLENE PSIG	
1502069	000	LIGHT GAUGE to 1/8"	20-25	3-5	NO. 68
1502070	00	1/8" - 1/4"	20-25	3-5	NO. 64
1502071	0	1/4" - 1/2"	25-35	7	NO. 60
1502072	1	1/2" - 3/4"	30-35	3-5	NO. 56
1502073	2	3/4" - 1 1/2"	35-45	3-7	NO. 53
1502074	3	1 1/2" - 3 1/2"	40-50	4-10	NO. 51
1502075	4	1 1/2" - 2 1/2"	40-50	5-10	NO. 42
1502076	5	2 1/2"-3	45-55	5-13	NO. 35
1502077	6*	5-8	45-55	7-14	NO. 31

*For best performance use 3/8"-I.D. hose for tip sizes 6 and larger

I-GPN

MODEL
1YR WARRANTY
MADE IN THE USA

V-SERIES® GENERAL PREHEAT PROPANE / NATURAL GAS TWO PIECE HAND CUTTING TIP

MODEL SHOWN:
1-GPN

DESCRIPTION

A two piece propane/ natural gas hand cutting tip for relatively clean steel.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: Metal fabrication, shipbuilding, construction

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	FUEL GAS	
1502300	000	LIGHT GAUGE to 1/8"	20-25	3-5	NO.71
1502301	00	1/4"	20-25	3-5	NO.67
1502302	0	3/8" - 1/2"	25-35	3-5	NO.60
1502303	1	3/4"	30-35	4-6	NO.56
1502304	2	1 - 1 1/2"	35-45	4-9	NO.53
1502305	3	2 - 2 1/2"	40-50	5-10	NO.50
1502306	4	3"	45-50	8-12	NO.45
1502307	5	4-5"	45-55	8-12	NO.39
1502308	6*	6"	45-55	10-15	NO.31

*For best performance use 3/8" I.D. hose for tip sizes 6 and larger

I-GPP

MODEL
1YR WARRANTY
MADE IN THE USA

V-SERIES® GENERAL PREHEAT PROPYLENE TWO PIECE HAND CUTTING TIP

MODEL SHOWN:
1-GPP

DESCRIPTION

A two piece propylene gas hand cutting tip for relatively clean steel.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: Metal Fabrication, shipbuilding, maintenance

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	FUEL GAS	
1502317	000	LIGHT GAUGE to 1/8"	20-25	3-5	NO. 68
1502318	00	1/4"	20-25	3-5	NO. 64
1502319	0	3/8" - 1/2"	25-35	7	NO. 60
1502320	1	3/4"	30-35	3-5	NO. 56
1502321	2	1 1/2" - 1 1/2"	35-45	3-7	NO. 53
1502322	3	2 - 2 1/2"	40-50	4-10	NO. 57
1502323	4	3"	40-50	5-10	NO. 42
1502324	5	4 - 5"	45-55	5-13	NO. 35
1502325	6*	6 - 8"	45-55	7-14	NO. 31

*For best performance use 3/8" I.D. hose for tip sizes 6 and larger



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TIPS

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V3-101

MODEL



V-SERIES® GENERAL PREHEAT SINGLE PIECE ACETYLENE HAND CUTTING TIP

MODEL SHOWN:
V3-101

DESCRIPTION

A single piece acetylene hand cutting tip for relatively clean plate. The V3-101 is compatible with V-Series and Victor® style torches.

DETAILS

Construction: One piece

Preheat Type: General

Where Used: Maintenance , metal art construction

Compatible Equipment:

C-9 Tip cleaner P/N: 9000156



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	ACETYLENE PSIG	
1502080	000	LIGHT GAUGE to 1/8"	20-30	5	NO.70
1502081	00	1/8" - 5/16"	20-30	5	NO.69
1502082	0	5/16" - 5/8"	30-40	7	NO.61
1502083	1	5/8" - 1"	40-50	7	NO.56
1502084	2	1" - 2"	45-55	8	NO.53
1502085	3	2" - 3"	50-60	9	NO.50
1502086	4	3" - 4"	60-75	10	NO.46
1502136	5	4 - 6"	70-80	12	NO.39
1502137	6*	6"	75-80	15	NO.31

*For best performance use 3/8" I.D. hose for tip sizes 6 and larger

3-GPN

MODEL
1YR WARRANTY
MADE IN THE USA

V-SERIES® GENERAL PREHEAT TWO PIECE PROPANE/ NATURAL GAS HAND CUTTING TIP

MODEL SHOWN:
3-GPN

DESCRIPTION

A two piece propane/natural gas hand cutting tip for relatively clean steel.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: Maintenance,
metal sculpture construction

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	FUEL GAS	
1502309	000	LIGHT GAUGE to 1/8"	20-25	3-5	NO.71
1502310	00	1/4"	20-25	3-5	NO.67
1502311	0	3/8" - 1/2"	25-35	3-5	NO.60
1502312	1	3/4"	30-35	4-6	NO.56
1502313	2	1 - 1 1/2"	35-45	4-9	NO.53
1502314	3	2 - 2 1/2"	40-50	5-10	NO.50
1502315	4	3"	45-50	8-12	NO.45
1502316	5*	4-5"	45-55	8-12	NO.39

*For best performance use 3/8" I.D. hose for tip sizes 5 and larger

3-GPP

MODEL
1YR WARRANTY
MADE IN THE USA

V-SERIES® GENERAL PREHEAT SINGLE PIECE PROPYLENE HAND CUTTING TIP

MODEL SHOWN:
3-GPP

DESCRIPTION

A two piece propylene hand cutting tip for relatively clean steel.

DETAILS

Construction: Two-piece

Preheat Type: General

Where Used: Maintenance, Metal
Art, Construction

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	DEPTH OF CUT	OPERATING PRESSURES		CUTTING DRILL SIZE
			OXYGEN PSIG	FUEL GAS	
1502330	000	LIGHT GAUGE to 1/8"	20-25	3-5	NO.71
1502331	00	1/4"	20-25	3-5	NO.67
1502332	0	3/8" - 1/2"	25-35	3-5	NO.60
1502333	1	3/4"	30-35	4-6	NO.56
1502334	2	1" - 1 1/2"	35-45	4-9	NO.53
1502335	3	2 - 2 1/2"	40-50	5-10	NO.50
1502336	4	3"	45-50	8-12	NO.45
1502337	5	4 - 5"	45-55	8-12	NO.39



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TIPS

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VVC 6290 MODEL

1YR
WARRANTY

PREMIUM MACHINE CUTTING TIPS

MODEL SHOWN:
6290 VVC

DESCRIPTION

High-speed oxy-propane/natural gas cutting tip with a chrome-plated shell (.088 cup depth).

DETAILS

- Minimizes kerf
- Increased cutting speeds, reduces heat input
- High-quality cut, reduces after work
- Used with low-cost fuel gases
- NH tips listed are not plated and have heat-resistant heavy shell

Compatible Equipment:

E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE	PLATE THICKNESS INCHES	CUTTING SPEED I.P.M	CUTTING OXYGEN PSIG	PREHEAT OXYGEN PSIG		PREHEAT FUEL PSIG	CUTTING OXYGEN CONSUMPTION SCFH	LOW PREHEAT OXYGEN CONSUMPTION SCFH	PROPANE CONSUMPTION SCFH	NATURAL GAS CONSUMPTION SCFH	APPROXIMATE KERF INCHES
					HIGH	LOW						
1501310	5/0	3/16	20	40	15	8	4 oz.- 2	15	20 - 30	6	15	.05
1501320	4/0	1/4	20	50	15	10	4 oz.- 2	40	20 - 35	7	18	.06
1501330	3/0	3/8	18	75	35	10	4 oz.- 2	80	20 - 35	7	18	.07
1501340	2/0	1/2	18	75	35	10	4 oz.- 2	90	25 - 35	7	18	.07
1501350	0	3/4	15	90	35	10	4 oz.- 2	125	25 - 35	7	18	.08
1501360	0 1/2	1 1/4	14	100	35	12	4 oz.- 2	170	25 - 40	8	20	.09
1501370	1	2	13	100	35	12	4 oz.- 2	200	25 - 40	8	20	.11
1501380	1 1/2	3	9	100	35	12	4 oz.- 2	250	25 - 40	8	20	.12
1501390	2	4	7	100	35	12	4 oz.- 2	325	25 - 40	8	20	.13
1501400	2 1/2	5	6	100	35	12	4 oz.- 2	395	25 - 40	8	20	.14
1501410	3	6	5	100	40	30	4 oz.- 2	425	25 - 40	8	20	.16
1501420	4	8	5	100	40	35	4 oz.- 2	525	25 - 40	8	20	.20
1501430	5	9	4	90	40	30	4 oz.- 2	580	50 - 100	20	50	.25
1501440	5 1/2	10	4	90	40	30	4 oz.- 2	600	50 - 100	20	50	.25
1501120	5NH*	10	4	60	40	30	4 oz.- 2	600	50 - 100	20	50	.25
1501130	6NH*	11	4	60	40	30	4 oz.- 2	690	50 - 100	20	50	.25
1501140	7NH*	12	4	60	50	40	4 oz.- 2	825	50 - 100	20	50	.25
1501190	8NH*	15	3	60	50	40	4 oz.- 2	925	50 - 100	20	50	.30

NOTES:

- (1) Use next size larger tip with same PSIG for contour or intricate cutting.
 - (2) For thin plate cutting use a highly carburizing preheat flame.
 - (3) Cutting oxygen pressures should be measured at torch entry.
 - (4) When using two hose machine torches set oxygen pressure at cutting oxygen PSIG above.
- * NH Tips are not plated

VVCU

6290

MODEL



ECONOMICAL MACHINE CUTTING TIPS

MODEL SHOWN:
6290 VVCU

DESCRIPTION

High-speed oxygen propane/natural gas cutting tip with an unplated shell (.062 cup depth).

DETAILS

- Minimizes kerf
- Increased cutting speeds, reduces heat input
- High-quality cut, reduces after work
- Used with low-cost fuel gases

Compatible Equipment:
E-9 Tip cleaner P/N: 9000160



PART NO.	TIP SIZE NO.	PLATE THICKNESS INCHES	CUTTING SPEED I.P.M	CUTTING OXYGEN PSIG	PREHEAT OXYGEN PSIG		PREHEAT FUEL PSIG	CUTTING OXYGEN CONSUMPTION SCFH	LOW PREHEAT OXYGEN CONSUMPTION SCFH	PROPANE CONSUMPTION SCFH	NATURAL GAS CONSUMPTION SCFH	APPROXIMATE KERF INCHES
					HIGH	LOW						
1502120	5/0	3/16	20	40	15	8	4 oz.-2PSIG	15	30	6	15	.05
1502121	4/0	1/4	20	50	15	10	4 oz.-2PSIG	40	35	7	18	.06
1502122	3/0	3/8	18	75	35	10	4 oz.-2PSIG	80	35	7	18	.07
1502123	2/0	1/2	18	75	35	10	4 oz.-2PSIG	90	35	7	18	.07
1502124	0	3/4	15	90	35	10	4 oz.-2PSIG	125	35	7	18	.08
1502125	0 1/2	1 1/4	14	100	35	12	4 oz.-2PSIG	170	40	8	20	.08
1502126	1	2	13	100	35	12	4 oz.-2PSIG	200	40	8	20	.09
1502127	1 1/2	3	9	100	30	25	4 oz.-2PSIG	250	40	8	20	.11
1502128	2	4	7	100	30	35	4 oz.-2PSIG	325	40	8	20	.12
1502129	2 1/2	5	6	100	30	35	4 oz.-2PSIG	395	40	8	20	.13
1502130	3	6	5	100	50	40	4 oz.-2PSIG	425	40	8	20	.14
1502131	4	8	5	100	50	40	4 oz.-2PSIG	525	40	8	20	.16
1502132	5	9	4	90	50	40	4 oz.-2PSIG	580	100	20	50	.20

NOTES:

- (1) Use next size larger tip with same PSIG for contour or intricate cutting.
- (2) For thin plate cutting use a highly carburizing preheat flame.
- (3) Cutting oxygen pressures should be measured at torch entry.
- (4) When using two hose machine torches set oxygen pressure at cutting oxygen PSIG above.



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TIPS

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VVCP**6290****MODEL****PREMIUM MACHINE CUTTING TIPS FOR PROPYLENE****MODEL SHOWN:
6290-VVCP****DESCRIPTION**

High speed oxygen propylene cutting tips with a chrome-plated shell (.034 cup depth).
Ideal for machining cutting using propylene-based fuel gases.

DETAILS

- Minimizes kerf
- Increases cutting speed
- Reduces heat input
- High-quality cut reduces after work
- Uses lower-cost fuel gases

Compatible Equipment:
E-9 Tip cleaner P/N: 900160



PART NO.	TIP SIZE NO.	PLATE THICKNESS INCHES	CUTTING SPEED I.P.M	CUTTING OXYGEN PSIG	HIGH	LOW	PREHEAT FUEL PSIG	CUTTING OXYGEN CONSUMPTION	LOW PREHEAT OXYGEN CONSUMPTION	PROPYLENE CONSUMPTION SCFH	APPROX. KERF IN.
1502200	5/0	3/16	20	40	12	8	4 oz - 2	15	32	13	.05
1502202	4/0	1/4	20	50	12	8	4 oz - 2	40	32	13	.06
1502204	3/0	3/8	18	75	25	8	4 oz - 2	80	32	13	.08
1502206	2/0	1/2	18	90	25	8	4 oz - 2	90	32	13	.07
1502208	0	3/4	15	100	25	8	4 oz - 2	125	32	13	.08
1502210	0 - 1/2	1 1/4	14	100	25	8	4 oz - 2	170	32	13	.08
1502212	1	2	13	100	25	10	4 oz - 2	200	40	16	.09
1502214	1 1/2	3	9	100	25	10	4 oz - 2	250	40	16	.11
1502216	2	4	7	100	25	10	4 oz - 2	325	40	16	.12
1502218	2 1/2	5	6	100	30	10	4 oz - 2	395	40	16	.13
1502220	3	6	5	100	30	10	4 oz - 2	425	40	16	.14
1502222	4	8	5	100	30	10	4 oz - 2	525	40	16	.16
1502224	5	9	4	90	30	10	4 oz - 2	580	40	16	.20

NOTES:

- (1) Use next size larger tip with same PSIG for contour or intricate cutting.
- (2) For thin plate cutting use a highly carburizing preheat flame.
- (3) Cutting oxygen pressures should be measured at torch entry.
- (4) When using two hose machine torches set oxygen pressure at cutting oxygen PSIG above.

8090

MODEL



HEAVY CUTTING MACHINE TIPS

MODEL SHOWN:
8090

DESCRIPTION

For Model 8090 Jumbo Machine Torch (see p. 138) used with propane and natural gas.* Operates on fuel pressures of 10 to 15 PSIG.

DETAILS

Construction: Screw in/Tip mix

Where Used: For heaving cutting
8"-30"



PART NO.	TIP SIZE NO.	METAL THICKNESS INCHES	SPEED INCHES PER MINUTE	OPERATING PRESSURES PSIG	ORIFICE DIA. INCHES	GAS FLOW CUBIC FEET PER HOUR
1501910	0	8 - 12	6 - 3	CUT. OXYGEN - 30-60	5/32	600 - 1500
1501920	1	-	-	P.H. OXYGEN - 20-40	3/16	200 - 375
				PROPANE - 10-15	-	55 - 105
1501920	1	12 - 16	6 - 3	CUT. OXYGEN - 30-60	3/16	1900 - 3600
1501930	2	-	-	P.H. OXYGEN - 25-50	1/4	250 - 425
				PROPANE - 10-20	-	55 - 125
1501930	2	16 - 20	4 - 2	CUT. OXYGEN - 25-50	1/4	1900 - 3600
1501940	3	-	-	P.H. OXYGEN - 25-50	5/32	250 - 425
				PROPANE - 10-20	-	55 - 125
1501940	3	20 - 25	3 - 1 1/2	CUT. OXYGEN - 25-50	5/32	2100 - 4400
1501950	4	-	-	P.H. OXYGEN - 25-50	5/16	250 - 425
				PROPANE - 10-20	-	55 - 125
1501950	4	OVER 25	3 - 1	CUT/ OXYGEN - 40-90	5/16	2100 - 4400
1501960	4 1/2	-	-	P.H. OXYGEN - 25-50	1 1/32	250 - 425
				PROPANE - 10-20	-	55 - 125

*NOTE: Propylene style available as SPECIAL ORDER.

136

MODEL



HEAVY-DUTY HAND CUTTING TIPS

MODEL SHOWN:
136

DESCRIPTION

Propane/natural gas* cutting tips specifically for Harris Model 136 (see p. 99) cutting torches.

DETAILS

- Heavy shell with shroud
- Captive nut
- General preheat



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG	FUEL SCFH	DRILL CUT SIZE	TORCH MODEL
QC13611	136-11	12 - 19"	60 - 80	950 - 2900	8 - 15	130 - 350	3/16"	136
QC13613	136-13	19 - 28"	60 - 80	2100 - 4000	10 - 15	150 - 400	1/4"	136
QC13615	136-15	28 - 36"	80 - 100	2500 - 4800	15 - 20	180 - 450	1 1/32"	136

*NOT FOR USE WITH ACETYLENE.



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TIPS

119

140

MODEL

HEAVY-DUTY HAND CUTTING TIPS

MODEL SHOWN:
140

DESCRIPTION

Propane/natural gas* cutting tips specifically for Harris Model 136 cutting torches.

DETAILS

- Low cost
- Straight bore
- Heavy preheat
- Single-piece: requires separate tip nut
P/N: QC1WHP13601P



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG	FUEL SCFH	DRILL CUT SIZE	TORCH MODEL
QC14009	140-09	15"	65 - 85	1300 - 1500	12 - 15	100 - 120	3/32"	136
QC14011	140-11	19"	65 - 85	1700 - 1950	12 - 15	130 - 160	3/16"	136
QC14012	140-12	20"	65 - 85	1800 - 2250	12 - 15	165 - 180	7/32"	136
QC14013	140-13	25"	65 - 85	2100 - 2500	15 - 18	175 - 210	1/4"	136

*NOT FOR USE WITH ACETYLENE.

HS

140

MODEL

HEAVY-DUTY HIGH SPEED MACHINE CUTTING TIPS

MODEL SHOWN:
140-HS

DESCRIPTION

Propane/natural gas* cutting tips specifically for Harris Model 136 cutting torches.

DETAILS

- High-speed divergent bore
- General preheat
- Single-piece: requires separate tip nut
P/N: QC1WHP13601P



PART NO.	MODEL NO.	DEPTH OF CUT	O ₂ PSIG	O ₂ FLOW SCFH	FUEL PSIG	FUEL SCFH	DRILL SIZE	TORCH MODEL
QC140160	140-160	15"	90 - 130	2100 - 2300	12 - 15	100 - 120	-	136
QC140200	140-200	19"	90 - 130	3100 - 3500	12 - 15	130 - 160	-	136
QV140240	140-240	25"	90 - 130	4600 - 5100	12 - 15	165 - 180	-	136

*NOT FOR USE WITH ACETYLENE.

23A90

MODEL



ACETYLENE WELDING AND BRAZING TIPS

MODEL SHOWN:
23A90

DESCRIPTION

Model 23A90 tips are manufactured using environmentally-friendly tellurium copper that has excellent machining properties resulting in a higher quality tip. They are swaged for more precise and consistent flames. They use a universal mixer for sizes 0-10, eliminating the expense of using a different mixer for every tip size. All 23A90 tips have a metal-to-metal seat, virtually eliminating possible leaks and the need for thread sealants.



DETAILS

Warranty: 1 year

Where Used: Fabricating, maintenance

Compatible Equipment:
C-9 Tip cleaner P/N: 9000156

PART NO.	TIP SIZE NO.	METAL THICKNESS INCHES	EQUAL PRESSURE		ACETYLENE SCFH *	RECOMMENDED HOSE ID **	TIP THREAD
			OXYGEN PSIG	ACETYLENE PSIG			
1600840	0	1/64"	1	1	1 - 3	3/16"	23/64 - 26
1600850	1	1/32"	1	1	2 - 5	3/16"	23/64 - 26
1600860	2	3/64"	2	2	3 - 8	3/16"	23/64 - 26
1600870	3	1/16"	3	3	5 - 11	3/16"	23/64 - 26
1600880	4	3/32"	4	4	6 - 14	3/16"	23/64 - 26
1600890	5	1/8"	5	5	8 - 18	3/16"	23/64 - 26
1600900	6	3/16"	6	6	10 - 20	3/16"	23/64 - 26
1600910	7	1/4"	7	7	13 - 25	3/16"	23/64 - 26
1600920	8	5/16"	8	8	16 - 32	3/16"	23/64 - 26
1600930	9	3/8"	9	9	20 - 37	1/4"	23/64 - 26
1600940	10	1/2"	10	10	24 - 42	1/4"	23/64 - 26
1600960	13	3/4"	13	13	30 - 50	3/8"	1/2 - 25
1600970	15	1"	15	15	35 - 65	3/8"	1/2 - 25

* Oxygen SCFH is equal to 1.1 times acetylene for neutral flame.

** Hose sizes are suitable for hoses up to 25'; for longer hoses higher pressures should be used. Observe 1/3 acetylene rule when determining gas supply.

HEAVY DUTY
EQUAL PRESSURE MIXERS
FOR MODEL 43-2 HANDLE



MEDIUM DUTY
EQUAL PRESSURE MIXERS
FOR MODEL 85 HANDLE



LIGHT DUTY
EQUAL PRESSURE MIXERS
FOR MODEL 16, 19 AND 50-9 HANDLES



5090

MODEL



ACETYLENE WELDING AND BRAZING TIPS

MODEL SHOWN:
5090

DESCRIPTION

Model 5090 tips are manufactured using environmentally-friendly tellurium copper that has excellent machining properties resulting in a higher quality tip. They are swaged for more precise and consistent flames. They use a universal mixer for sizes 0-10, eliminating the expense of using a different mixer for every tip size. All 5090 tips have a metal-to-metal mixer seat virtually eliminating the possibility of leaks and the need for thread sealants.

DETAILS

Where Used: Maintenance, metal art production, brazing

Compatible Equipment:
C-9 Tip Cleaner P/N: 900156



PART NO.	TIP SIZE NO.	METAL THICKNESS INCHES	EQUAL PRESSURE		ACETYLENE SCFH *	RECOMMENDED HOSE ID **	TIP THREAD
			OXYGEN PSIG	ACETYLENE PSIG			
1601690	0	1/64"	1	1	1 - 3	3/16"	5/16 - 27
1601700	1	1/32"	1	1	2 - 5	3/16"	5/16 - 27
1601710	2	3/64"	2	2	3 - 8	3/16"	5/16 - 27
1601730	3	1/16"	3	3	5 - 11	3/16"	5/16 - 27
1601740	4	3/32"	4	4	6 - 14	3/16"	5/16 - 27
1601760	5	1/8"	5	5	8 - 18	3/16"	5/16 - 27
1601780	6	3/16"	6	6	10 - 20	3/16"	5/16 - 27
1601800	7	1/4"	7	7	13 - 25	3/16"	5/16 - 27
1601810	8	5/16"	8	8	16 - 32	3/16"	5/16 - 27
1601830	9	3/8"	9	9	20 - 37	1/4"	5/16 - 27
1601840	10	1/2"	10	10	24 - 42	1/4"	5/16 - 27

*Oxygen SCFH is equal to 1.1 times acetylene for neutral flame.

**Hose sizes are suitable for hoses up to 25'. For longer hoses, higher pressures should be used. Observe 1/8th acetylene rule when determining gas supply.

MEDIUM DUTY
EQUAL PRESSURE MIXERS
FOR MODEL 16, 19 AND 50-9 HANDLES



H-16-E

LIGHT DUTY
EQUAL PRESSURE MIXERS
FOR MODEL 15 HANDLE



B-15-3



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TIPS

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