

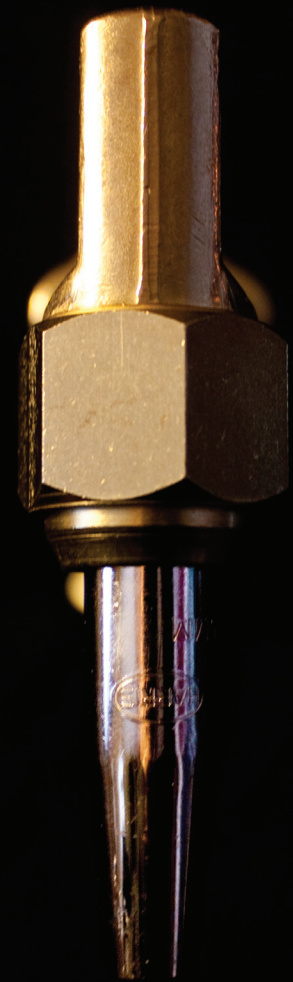
CHANGE FOR THE BETTER

GET STARTED WITH HARRIS

Turn to Harris, the industry leader in alternate fuel equipment, for all your cutting, heating and brazing equipment needs. Using an alternate fuel is easy, and Harris has some simple steps for you to get started.

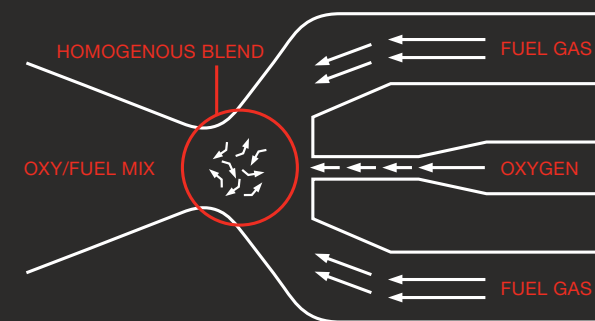
Choose equipment specifically designed for your application.

Once you have the right Harris equipment, you can get to work.



NOT ALL TORCHES ARE CREATED EQUAL

Harris alternate fuel torches incorporate injector mixers that are designed to give you reduced pre-heat times and the most BTUs for your dollar. As pre-heat oxygen and alternate fuel gas pass through the Harris high-velocity injector mixer a homogenous blend is created. This homogenous blend allows for greater combustion efficiency. Torches without an injector mixer will never achieve this optimum performance, especially if you only change out the tip.



NEED PROOF?

Check out www.HarrisProductsGroup.com to see a side-by-side comparison video and you be the judge.

1 GET THE RIGHT TORCH

Be sure you have an injector style torch like the Harris model 62-5F or you may miss out on all the benefits of alternate fuels.

1
TORCH

2 GET THE RIGHT TIP

Our two-piece 6290 series tips are specifically designed for the alternate fuel of your choice.

2
TIP

3 GET THE RIGHT REGULATOR

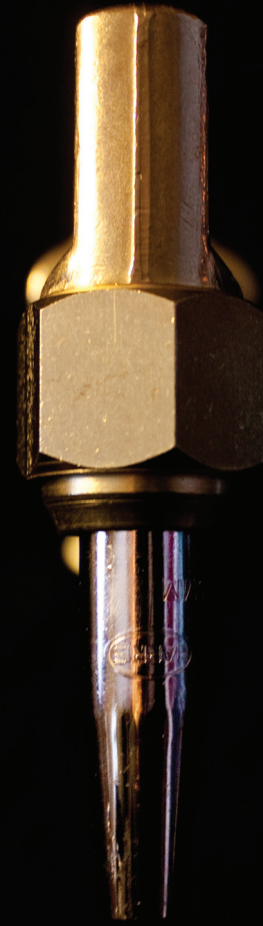
A Harris model 25-50C-510P is a great option for industrial applications.

3
REGULATOR

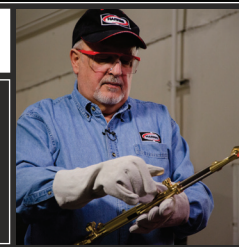
4 GET THE RIGHT HOSE

Grade "T" hose should always be used with all alternate fuels.

4
HOSE

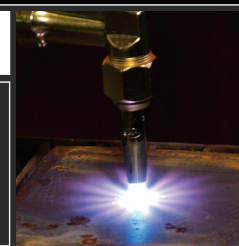


1
SAFETY



Install and adjust your alternate fuel equipment as specified by the Harris tip guide.

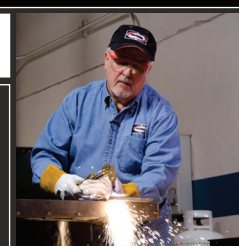
2
LIGHT/SET



Light and set your pre-heat flame.

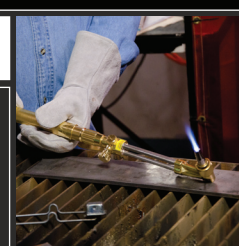
Note: you can check your settings by looking for a compact 3-inch "star" pattern.

3
PREHEAT



Preheat and cut your steel.

4
SHUT DOWN



Shut down by turning off the torch fuel gas and then the oxygen.

HERE'S MORE THAN A TIP

TORCHES | TIPS | REGULATORS | HOSES



DID YOU KNOW?

ALTERNATE FUELS PERFORM MUCH BETTER THAN ACETYLENE WHEN YOU HAVE THE RIGHT EQUIPMENT. REMEMBER, THE OXYGEN DOES THE CUTTING, NOT THE FUEL GAS.

WARNING

MIXING DIFFERENT FUEL GASES CAN CAUSE FIRE OR EXPLOSION.

- Don't change over equipment used with acetylene, like the regulator, tip or hose, to a different fuel gas.
- Be sure your equipment is rated for the fuel gas you plan to use and, if not, replace it with the proper equipment.
- Read and follow the Harris Equipment Operation Safety Guidelines available at <http://www.harrisproductsgroup.com/> and Compressed Gas Association (CGA) Safety Bulletin SB-8 available at <http://www.cganet.com/>



THE HARRIS PRODUCTS GROUP
THE COMPLETE SOLUTION FOR
YOUR ALTERNATE FUEL EQUIPMENT NEEDS

CHANGE IS GOOD

The time is right to make the change to an alternate fuel and Harris is ready to help with the right equipment and technical know how. Harris has been manufacturing

alternate fuel equipment for over 105 years. Once you see the benefits of alternate fuel and the Harris alternate fuel injector technology, you will be ready to make the change.

ALTERNATE FUELS SAVE MONEY

- Savings up to 40%
- More BTUs per dollar
- Lower cylinder handling costs
- Lower cylinder rental charges
- Equipment lasts longer

CHANGE SAVES CASH

ALTERNATE FUELS PERFORM

- More BTUs per cubic foot
- Less chipping and grinding
- Less top edge roll-over
- Very broad flame adjustment range
- Less hardening of cut face

CHANGE PERFORMS

STILL NOT CONVINCED?

MAYBE IT'S TIME FOR A COST ANALYSIS. YOU WILL BE SURPRISED BY THE SAVINGS ASSOCIATED WITH OUR ALTERNATE FUEL INJECTOR TECHNOLOGY. HEAD ON OVER TO WWW.HARRISPRODUCTSGROUP.COM FOR AN INTERACTIVE FUEL SAVINGS CALCULATOR.



With the right equipment from Harris, using an alternate fuel is easy. And since you deserve the best performance, always be sure you are set up with equipment that is specifically designed for your alternate fuel application.

CHANGE IS EASY...

TORCHES

Straight Torches

62-5F	Heavy Duty	All Alternate Fuels
42-4F	Medium Duty	All Alternate Fuels
880-F	Light / Medium Duty	All Alternate Fuels

Heavy Industry Torches

136-2	High Capacity 36" Hand Torch	Propane / Propylene
6000	Extra High Capacity 50" Hand Torch	Propane / Propylene
80	High Capacity 30" Machine Torch	All Alternate Fuels

Machine Torches

98-6	Heavy Duty Machine Torch	All Alternate Fuels
------	--------------------------	---------------------

Cutting Attachments

49-3F	Heavy Duty Cutting Attachment	All Alternate Fuels
39-3F	Medium / Heavy Duty Cutting Attachment	All Alternate Fuels



Handles

43-2	Heavy Duty Handle	All Alternate Fuels
18-5	Heavy Duty Automatic Handle	All Alternate Fuels
85	Medium Duty Handle	All Alternate Fuels
50-10	Light / Medium Duty Automatic Handle	All Alternate Fuels
19-6	Light / Medium Duty Handle	All Alternate Fuels
15	Light Duty Handle	All Alternate Fuels

REGULATORS

Single Stage Cylinder Regulators

601-50-510P	Light Duty	"A" 3/8" - 24LH(M)
25-15C-510P	Heavy Duty	"B" 9/16" - 18LH(M)
25-50C-510P	Heavy Duty	"B" 9/16" - 18LH(M)
425-50-510P	Heavy Duty	"B" 9/16" - 18LH(M)
2500-50-510P	Heavy Duty	"B" 9/16" - 18LH(M)
3500-50-510P	High Flow	1.00-11.5 NPS(F)
3510 LH - 997	Manifold	1/2" NPT(F)
HP3530 - 000	High Flow	1/2" NPT(F)
29-50C-510P	Gaugeless	"B" 9/16 - 18LH(M)

Outlet Connection

Two Stage Cylinder Regulators

2561-50-510P	Heavy Duty	"B" 9/16 - 18LH(M)
9296-50-510P	Heavy Duty	"B" 9/16 - 18LH(M)
9200-50-510P	Heavy Duty	"B" 9/16 - 18LH(M)

Pipeline/Station Regulators

247 Fuel Gas 1/4" NPT	Heavy Duty Station / Pipeline	"B" 9/16 - 18LH(M)
447 Fuel Gas 1/4" NPT	Heavy Duty Station / Pipeline	"B" 9/16 - 18LH(M)
547 Fuel Gas 1/4" NPT	Heavy Duty Station	"B" 9/16 - 18LH(M)
HP3520-000	High Flow	1/2" - NPT (F)
2548 - Fuel Gas 1/4" NPT	Heavy Duty Stainless Steel Diaphragm	1/4" - NPT (F)
647 PM	Heavy Duty Panel Mount	1/4" - NPT (F)



TIPS (see your Harris Authorized Distributor for flow and pressure requirements)

Hand Torch Cutting Tips

6290-NX	Medium Preheat	Propane / Natural Gas
6290-NXP	Medium Preheat	Propylene
6290-NXM	Medium Preheat	Propylene
6290-NFF	Heavy Preheat	Propane / Natural Gas
3690-P	Light Preheat	Propane / Natural Gas

Heavy Industry Cutting Tips

136	High Capacity	All Alternate Fuels
213	Extra High Capacity	All Alternate Fuels
250	Scarfin	All Alternate Fuels
229	Iron Powder	All Alternate Fuels
8090	High Capacity (30") Machine Cutting	All Alternate Fuels

Special Application Tips

6290-1/2GG	Gouging Tip	Propane / Natural Gas
6290-1/2GGM	Gouging Tip	Propylene
6290-NFFL	Long 8" Tip	All Alternate Fuels
6290-NFFR	Rivet Cutting Tip	All Alternate Fuels
6290-NFW	Rivet Washing Tip	All Alternate Fuels

Machine Torch Cutting Tips

6290 VVC		Propane / Natural Gas
6290 VVCU		Propane / Natural Gas
6290 VVCP		Propylene

Brazing Tips

1390-N	Heavy Brazing	All Alternate Fuels
8490-N	Light Brazing	All Alternate Fuels



Heating Tips

2290-H	Heavy Duty	Propane / Natural Gas
2290-HPM	Heavy Duty	Propylene
RBP	Heavy Duty	Propane / Propylene
1390-3H	Medium Duty	Propane / Propylene
1390-H	Medium Duty	Propane / Propylene
1390-B	Medium Duty	Propane / Propylene
8490-6-65	Light Duty	Propane / Propylene
81-12	Compressed Air / Fuel Tip	Propane / Natural Gas
H-62-P	Cutting Torch Heating Tip	All Alternate Fuels

Mixers And Tip Tubes

F-43	Heavy Heating Tip Mixer	All Alternate Fuels
B-43-N	Medium Heating Tip Mixer	All Alternate Fuels
H-16-S	Light / Medium Heating Tip Mixer	All Alternate Fuels
D-50-C	Single Tip Tube	All Alternate Fuels
8593	Single Tip Tube	All Alternate Fuels
T-43	Single Tip Tube	All Alternate Fuels
TH-50-3	Twin Tip Tube	All Alternate Fuels
2393	Heavy Duty Tip Tube	All Alternate Fuels

OUTFITS

Alternate Fuel Outfits

43425F-510P	Pipeliner® Outfit	8525F-510P	Steelworker® Outfit	6225F-510	Cutter Pac® Outfit
-------------	-------------------	------------	---------------------	-----------	--------------------



HOSES

Alternate Fuel Hoses

3/16" X 20'		Twin T-Grade
1/4" X 20'		Twin T-Grade

LEARN MORE TODAY

With the right equipment from Harris, using alternate fuels is easy. View demonstration videos and find products that are specifically designed for your application at www.HarrisProductsGroup.com