



OXYLANCE

LANCING BARS & HOLDES

STEEL MILLBARS, HOLDERS & ACCESSORIES

SURE CUT SYSYTEM

OXYGEN LANCCE HOSE

SAFETY CLOTHING FOR LANCING

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	OXYGEN LANCE HOSE/SAFETY CLOTHING

Oxylance



BURING BARS APPLICATIONS

CUTTING GOUGING PIERCING

STAINLESS STEEL

- Cut 4 feet of 6" Thick 304 Stainless Steel with one .675" X 10'6" burning bar
- 4' diameter SS heat exchanger consisting of 1/2" OD SS tubes spaced 1/4" apart. Cut in half with one .675" X 10'6" burning bar.

MILD STEEL

- 5/8" plate embedded in concrete required one each .675" X 10'6" burning bar to cut 10 feet.
- 1" Mild Steel (clean steel) plate in flat position, one .675" X 10'6" burning bar to cut 20 feet.
 - 30" Steel Shaft required five 1.05" X 10'6" burning bars
 - 10 feet of high strength steel injection molding machine head 26 inches thick required twenty five 1.05" X 10'6" burning bars.
 - 7" thick cast steam turbine housing. One .922" X 10'6" burning bar cut 30 inches.
- 26" Steel Shaft sixteen each .625" X 10'6" burning bars. Same cut was duplicated with .922" X 10'6" and was cut with 5 burning bars
 - 44" Steel Shaft required nine each 1.05" X 10'6" burning bars

ALUMINUM

- Cutting 1.5" thick aluminum plate, one .675" X 10'6" burning bar cut 15 feet in 4 minutes.
- Aluminum spill, .840" X 10'6" burning bar cut 1.5 feet of 12 inch thick aluminum and Aluminum slag.

PIERCING FROZEN PINS AND PLATE

- Removing 6" X 16" pin from paper mill roll required one .675" X 10'6" burning bar
- Removing 6" X 24" hinge pin from tunnel boring machine required four .675" X 10'6" burning bars. Pin was wedged and had to be split in two directions to remove. (See photo on inside of brochure)
- Piercing five starter holes in 10" plate required one 10'6" burning bar.

For piercing starter holes in plate for shape cutting machines, the diameter of the burning bar

will determine the diameter of the completed

hole. To produce holes smaller than 1/2 inch, the Sure Cut System may be the proper choice.

Typical whole diameters will be 1/4" to 3/8" larger than the diameter of the burning bar.

Hole

diameter will depend on operator technique. A pierce through 10 inch thick plate should

take 35 to 45 seconds

CAST IRON AND NON FERROUS METALS

Cutting efficiency on cast iron depends on the grade, carbon content and hardness. Many cast irons will cut as easily as mild steel or cast steel. Others like rolls in paper mills may not cut at all. We have cut cast iron frames on presses that cut faster than mild steel. One such cut was on a cast beam in a newspaper printing press. The web was 14 inches tall and the flanges were 10 inches wide with an average thickness of 4 inches. The beam was severed in half with one .922" X 10'6" burning bar in 4 minutes. The best method of testing cast iron is to use an oxy-acetylene torch and see if the material will melt. If it will melt, a burning bar will cut it. If it will not melt, a test cut will have to be made with a burning bar to determine if the material will cut efficiently.

COPPER, BRASS, BRONZE AND ALUMINUM BRONZE

All of these metals act as heat syncs. The thicker the material, the more heat it takes to reach a point where it will melt. Thin material like the copper tubes in a heat exchanger will cut rapidly whereas the fins on ship propellers, made from aluminum bronze, will require larger burning bars and larger quantities of oxygen. Again, these types of materials will require the operator to make a test cut to determine if burning bars will produce the desired results.

CONCRETE

Concrete is another material that will not oxidize, so cutting it is a melting process. The speed of cutting concrete will depend on three things:

- Type and size of aggregate. Concrete with a lot of aggregate will cut very slowly.
 - Amount of rebar. The more steel that is in the concrete the faster it will cut.
- Tensile strength and moisture. As concrete ages, it becomes harder. The harder the concrete the slower it will cut. The more moisture in the concrete the better it will cut as the moisture will turn to steam and expand causing the concrete to spall or crack faster.

BURNING BARS

Burning Bars can be used to rapidly cut virtually any material that will oxidize or melt.

The 7500° F tip temperature is 2000° F hotter than an oxy/fuel torch.

BAR CUTTING SYSTEMS

Exothermic cutting is a chemical reaction (oxidation) that occurs when a steel tube filled with alloy wire is heated to its kindling temperature and injected with pure oxygen. The result is a consumable cutting torch that burns at a temperature of 7200 to 7400 degrees. Exothermic cutting is extremely efficient for rapidly cutting ferrous and non-ferrous materials.

STANDARD BURNING BARS

(SOLD IN QUANTITIES OF 10)

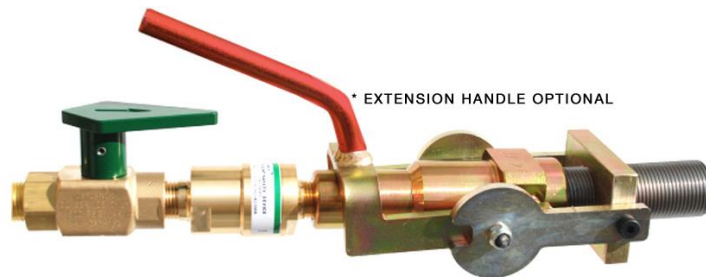
PART NUMBER	10'6" PLAIN END	BAR WEIGHT	PART NUMBER	10'6" QUICK CONNECT
54B1050A	.540" (O.D.) Burning Bar	6 lbs...	54B1050C	.540" (O.D.) Burning Bar
62B1050A	.625" (O.D.) Burning Bar	9 lbs...	62B1050C	.625" (O.D.) Burning Bar
67B1050A	.675" (O.D.) Burning Bar	10 lbs...	67B1050C	.675" (O.D.) Burning Bar
84B1050A	.840" (O.D.) Burning Bar	16 lbs...	84B1050C	.840" (O.D.) Burning Bar
92B1050A	.922" (O.D.) Burning Bar	18 lbs...	92B1050C	.922" (O.D.) Burning Bar
10B1050A	1.05" (O.D.) Burning Bar	25 lbs...	10B1050C	1.05" (O.D.) Burning Bar

PART NUMBER	10'6" THREADED ONE END	BAR WEIGHT	PART NUMBER	10'6" THREADED AND COUPLED
54B1050D	.540" (O.D.) Burning Bar	6 lbs...	54B1050F	.540" (O.D.) Burning Bar
67B1050D	.675" (O.D.) Burning Bar	10 lbs...	67B1050F	.675" (O.D.) Burning Bar
84B1050D	.840" (O.D.) Burning Bar	16 lbs...	84B1050F	.840" (O.D.) Burning Bar
10B1050D	1.05" (O.D.) Burning Bar	25 lbs...	10B1050F	1.05" (O.D.) Burning Bar

PART NUMBER	5'3" PLAIN END	BAR WEIGHT	PART NUMBER	5'3" QUICKCONNECT
54B0525A	.540" (O.D.) Burning Bar	3 lbs...	54B0525C	.540" (O.D.) Burning Bar
62B0525A	.625" (O.D.) Burning Bar	4.5 lbs...	62B0525C	.625" (O.D.) Burning Bar
67B0525A	.675" (O.D.) Burning Bar	5 lbs...	67B0525C	.675" (O.D.) Burning Bar

* If you need special lengths that are not shown on the charts above, please call for a quote

BURNING BAR HOLDERS



1 LEVR ACTION for .540" O.D. TUBE or 1/4" PIPE

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA1540	#1 Lever Action Holder (no valve) with .540" grommet	LA1540-H
PL 10-6	LA 1 Rubber Grommet for .540" pipe	
LA154F	#1 Lever Action Holder with 1/2" Thermal Shutoff	LA1540F-H
LA1540FG-B	#1 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "B" fitting for 3/8" ID hose)	LA1540FG-H-B
LA1540FG-C	#1 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA1540FG-H-C

1 LVEER ACTION for .625", .675" O.D. TUBE

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA167	#1 Lever Action Holder (no valve) with .675" grommet	LA1675-H
LA1675I	LA1 Rubber Grommet for .675" pipe	

LA167FG-B	#1 LA Holder with Ball Valve & 1/2" Thermal Shutoff (w/ "B" fitting for 3/8" ID hose)	LA167FG-H-B
LA167FG-C	#1 LA Holder with Ball Valve & 1/2" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA167FG-H-C

#2 LEVER ACTION HOLDER FOR .540"

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA254	#2 Lever Action Holder (no valve) with .540" grommet	LA254-H
LA254I	LA 2 Rubber Grommet for .540" pipe	
LA254FG-B	#2 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "B" fitting for 3/8" ID hose)	LA254FG-H-B
LA254FG-C	#2 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA254FG-H-C

#2 LEVER ACTION HOLDER FOR .625" AND .675"

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA2675	#2 Lever Action Holder (no valve) with .675" grommet	LA267-H
LA2675I	LA 2 Rubber Grommet for .625" and .675" pipe	
LA267FG-B	#2 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "B" fitting for 3/8" ID hose)	LA267FG-H-B
LA267FG-C	#2 Lever Action Holder with ball valve & 1/2" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA267FG-H-C

#3 LEVER ACTION HOLDER FOR .840"

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA384	#3 Lever Action Holder (no valve) with .840" grommet	LA384-H
LA3840I	LA3 Rubber Grommet for .840" pipe	
LA384F	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA384F-H
LA384FG	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA384FG-H
LA384FG-C	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA384FG-H-C

#3 LEVER ACTION HOLDER FOR .922"

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA392	#3 Lever Action Holder (no valve) with .922" grommet	LA392-H
LA392I	LA3 Rubber Grommet for .922" pipe	
LA392F	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA392F-H
LA392FG	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA392FG-H
LA392FG-C	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA392FG-H-C

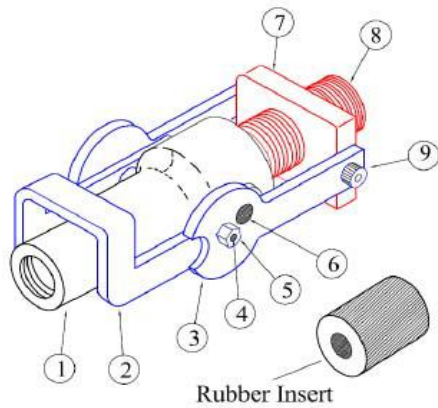
#3 LEVER ACTION HOLDER FOR 1.05"

Part # w/out Extension Handle	Description	Part # w/ Extension Handle
LA3105	#3 Lever Action Holder (no valve) with 1.05" grommet	LA3105-H
LA3105I	LA3 Rubber Grommet for 1.05" pipe	
LA3105F	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA3105F-H
LA3105FG	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff	LA3105FG-H
LA3105FG-C	#3 Lever Action Holder with ball valve & 3/4" Thermal Shutoff (w/ "C" fitting for 1/2" ID hose)	LA3105FG-H-C

LEVER ACTION HOLDER REPAIR PARTS & DIAGRAM

For the LA 2 Holder the LA2675I Insert fits both .625" and .675" diameter tube. FOR ALL HOLDERS FOR BURNING BARS AND LANCE PIPE LARGER THAN .540" OXYLANCE RECOMMENDS THAT 1/2" HOSE BE USED WHICH REQUIRES A CGA "C" FITTING

*V-05 VALVE NOT RECOMMENDED FOR PRESSURES OVER 200 PSI



- 1 Body
 - 2 Lever Handle
 - 3 Inner Link (2 each)
 - 4 Link Bolts (2 each)
 - 5 Link Bolt Nuts (2 each)
 - 6 Hinge Pins (2 each behind Inner Link)
 - 7 Barrel Nut
 - 8 Barrel
 - 9 Barrel Nut Bolts (2 each)
- 1-9 i.d. numbers in drawing refers to last number in part numbers below

LA 1 PARTS		LA 2 PARTS		LA 3 PARTS	
PART #	DESCRIPTION	PART #	DESCRIPTION	PART #	DESCRIPTION
LAP1-1	#1 LA Body	LAP2-1	#2 LA Body	LAP3-1	#3 LA Body
LAP1-2	#1 LA Lever Handle w/out Extension Handle	LAP23-2	#2 LA Lever Handle w/out Extension Handle	LAP23-2	#3 LA Lever Handle w/out Extension Handle
LAP1-2-H	#1 LA Lever Handle w/ Extension Handle	LAP23-2-H	#2 LA Lever Handle w/ Extension Handle	LAP23-2-H	#3 LA Lever Handle w/ Extension Handle
LAP1-3	#1 LA Inner Link	LAP23-3	#2 LA Inner Link	LAP23-3	#3 LA Inner Link
LAP234-4	Link Bolt	LAP234-4	Link Bolt	LAP234-4	Link Bolt
LAP234-5	Link Bolt Nut	LAP234-5	Link Bolt Nut	LAP234-5	Link Bolt Nut
LAP234-6	Hinge Pin	LAP234-6	Hinge Pin	LAP234-6	Hinge Pin
LAP1-7	#1 Barrel Nut	LAP2-7	#2 Barrel Nut	LAP3-7	#3 Barrel Nut
LAP1-8	#1 Barrel	LAP2-8	#2 Barrel	LAP3-8	#3 Barrel
LAP234-9	Barrel Nut Bolt	LAP234-9	Barrel Nut Bolt	LAP234-9	Barrel Nut Bolt
LAP1-10	#1 Hand Shield & Shield Nuts	LAP2-10	#2 Hand Shield & Shield Nuts	LAP3-10	#3 Hand Shield & Shield Nuts

STEEL MILL PRODUCTS

Oxylance manufactures a full line of Lance Pipe and accessories for foundry and steel mill applications.



BARE LANCE PIPE

Our bare Lance Pipe inventory comes in many diameters, wall thickness, lengths and end finishes. End finishes for bare Lance Pipe are plain end, threaded and quick connect. We carry a wide variety of raw goods that can be processed to your specific requirements. All of our Lance Pipe is cleaned for oxygen service in our cleaning operation to ensure safe and reliable use.

Uses for Lance Pipe

- *Scrap Processing
- *Opening Tap Holes
- *Injecting additives into the melt
- *Blowing oxygen into the melt for foamy slag operations

LANCE PIPE SIZE CHART

PIPE SIZES	OUTSIDE DIAMETER	QUICK CONNECT	THREADED ONE END	THREADED & COUPLED
1/8"	.405"	NO	YES	YES
1/4"	.540"	YES	YES	YES
3/8"	.675"	YES	YES	YES
1/2"	.840"	YES	YES	YES
3/4"	1.05"	YES	YES	YES
1"	1.315"	NO	YES	YES
1 1/4"	1.660"	NO	YES	YES
1 1/2"	1.900"	NO	YES	YES

TUBE SIZE CHART

TUBE SIZES	OUTSIDE DIAMETER	PLAIN ENDS	QUICK CONNECT
3/16"	.187"	YES	NO
1/4"	.250"	YES	NO
5/16"	.312"	YES	NO
3/8"	.375"	YES	YES
1/2"	.500"	YES	YES
5/8"	.625"	YES	YES
3/4"	.750"	YES	YES
.922"	.922"	YES	YES
1 1/4"	1.250"	YES	YES
1 1/2"	1.500"	YES	YES

CALORIZED LANCE PIPE

Calorized lance pipe is made up of 5 layers. At the core is a high quality mild steel lance pipe. In the colorization process the lance pipe is heated to 1000c (1830f) in a mixture of aluminum powder. At 1000c (1830f), the aluminum fuses with the surface of the steel pipe and forms a permanent layer of aluminum-iron alloy. The Calorized pipe is then coated inside and outside with a layer of refractory material which resist heat and slows the melting of the lance pipe. When Calorized pipe is exposed to high heat the refractory material and the Calorized layer form an Aluminum Oxide Film which increases the melting temperature to 2050 degrees c (3750 degrees f). Calorized Lance Pipe is used for melting and refining steel by both injecting oxygen and injecting other elements such as Carbon or Lime into the melt.

USES FOR CALORIZED PIPE

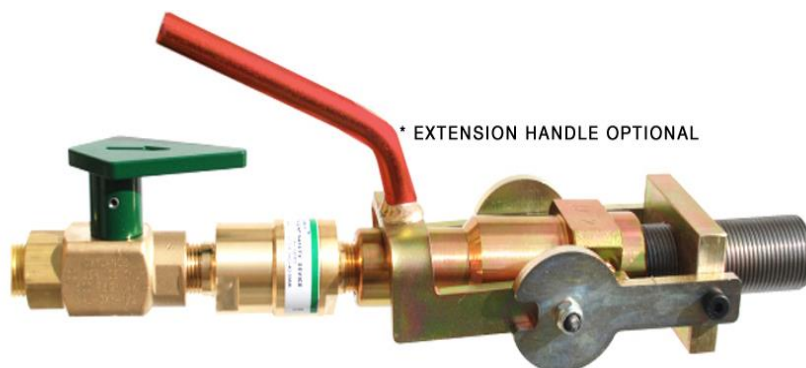
- *Cutting scrap steel
- *Refining steel during the melt
- *Injection of Carbon, Lime Powder, and other additives for adjusting grades of Carbon steel or specialty steels
- *Removing slag inside oxygen convertors
- *End finishes; plain ends, threaded and coupled and press on couplings

PIPE SIZE CHART

PIPE SIZES	OUTSIDE DIAMETER	PLAIN END	PRESS ON COUPLING	THREADED & COUPLED	BUNDLE COUNT	LENGTHS
3/8"	.675"	YES	YES	YES	200	9' & 18'
1/2"	.840"	YES	YES	YES	200	9' & 18'
3/4"	1.05"	YES	YES	YES	200	9' & 18'
1"	1.315"	YES	YES	YES	100	9' & 18'
1 1/4"	1.660"	YES	YES	YES	100	9' & 18'
1 1/2"	1.900"	NO	YES	YES	50	9' & 18'

STEEL MILL LANCE HOLDERS

Oxylance manufactures a variety of holders for lancing operations.



LEVER ACTION HOLDER with HANDLR WITH EXTENSION

Oxylance manufactures a complete line of holders for lance pipe. We also have the capability of customizing holders for special applications.



LEVER ACTION HOLDER w/out EXTENSION

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PL LANCE PIPE HOLDERS

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Oxygen Lance Holders

ALL HOLDERS ARE SHIPPED WITH A RUBBER GROMMET INSTALLED

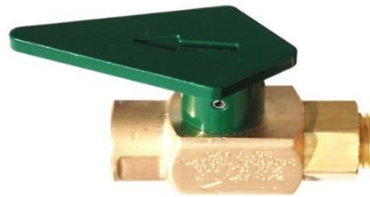
# 1 LEVER ACTION HOLDER for .405" (1/8" pipe)			
PART #	DESCRIPTION		
.405" O.D. tube or 1/8" Pipe		HOLDER WITH SHIELD	
LA1405	#1 Lever Action Holder (no valve) w/ .405 Grommet	LA1405-S	with Hand Shield
PL1/8-6	Rubber Grommet for .405" pipe for LA 1 Holder		
LA1405F	#1 Lever Action Holder w/ 1/2" Thermal Shutoff	LA1405FS	with Hand Shield
LA1405FB	#1 Lever Action Holder w/ Ball Valve & Thermal Shutoff	LA1405FBS	with Hand Shield

*LA1405FV	#1 Lever Action Holder w/ V-05 Valve & Thermal Shutoff	LA1405FVS	with Hand Shield
.540" O.D. tube or 1/4" Pipe		HOLDER WITH SHIELD	
LA1540	#1 Lever Action Holder (no valve) w/ .540" Grommet	LA1540-S	with Hand Shield
PL 10-6	Rubber Grommet for .540" (1/4" pipe) for LA 1 Holder		
LA154F	#1 Lever Action Holder w/ 1/2" Thermal Shutoff	LA154F-S	with Hand Shield
LA1540FB	#1 Lever Action Holder w/ Ball Valve & Thermal Shutoff	LA1540FBS	with Hand Shield
LA1540FV	#1 Lever Action Holder w/ V-05 Valve & Thermal Shutoff	LA1540FVS	with Hand Shield
# 2 LEVER ACTION HOLDER for .540" .625" and .675" O.D. pipe			
.540" O.D. tube or 1/4" Pipe w/ CGA "B" for 3/8" hose		HOLDER WITH SHIELD	
LA254	# 2 Lever Action Holder (no valve) w/ .540" Grommet	LA254-S	with Hand Shield
LA254I	LA 2 Rubber Grommet for .540" (1/4" pipe)		
LA254FB-B	# 2 LA Holder w/ Ball Valve & 1/2" Thermal Shutoff	LA254FBS-B	with Hand Shield
LA254FV-B	# 2 LA Holder w/ V-05 Valve & 1/2" Thermal Shutoff	LA254FVS-B	with Hand Shield
.540" O.D. tube 1/4" Pipe with/ CGA "C" for 1/2" hose		HOLDER WITH SHIELD	
LA254FB-C	# 2 LA Holder w/ Ball Valve & 1/2" Thermal Shutoff	LA254FBS-C	with Hand Shield
LA254FV-C	# 2 LA Holder w/ V-05 Valve & 1/2" Thermal Shutoff	LA254FVS-C	with Hand Shield
.675" and .625" O.D. tube w/ CGA "B" for 3/8" hose		HOLDER WITH SHIELD	
LA2675	# 2 Lever Action Holder (no valve)	LA2675-S	With Hand Shield
LA2675I	LA 2 Rubber Grommet for .625" and .675" O.D.		
LA267FB-B	# 2 LA Holder w/ Ball Valve & 1/2" Thermal Shutoff	LA267FBS-B	with Hand Shield
LA267FV-B	# 2 LA Holder w/ V-05 Valve & 1/2" Thermal Shutoff	LA267FVS-B	with Hand Shield
.675" and .625" O.D. tube w/ CGA "C" for 1/2" hose		HOLDER WITH SHIELD	
LA267FB-C	# 2 LA Holder w/ Ball Valve & 1/2" Thermal Shutoff	LA267FBS-C	with Hand Shield
LA267FV-C	# 2 LA Holder w/ V-05 Valve & 1/2" Thermal Shutoff	LA267FVS-C	with Hand Shield
# 3 LEVER ACTION HOLDER for .840", .922" or 1.050" O.D. pipe			

PART #	DESCRIPTION		
.840" O.D. tube or 1/2" pipe		HOLDER WITH SHIELD	
LA384	# 3 Lever Action Holder (no valve)	LA384S	with Hand Shield
LA3840I	LA 3 Rubber Grommet for .840" O.D. tube or 1/2" pipe		
LA384F	# 3 LA Holder 3/4" NPT Thermal Shutoff (no valve)	LA384FS	with Hand Shield
LA384FB	# 3 LA Holder w/ Ball Valve & 3/4" Thermal Shutoff	LA384FBS	with Hand Shield
LA384FB-C	Same as LA384FB with CGA "C" Fitting	LA384FBS-C	with Hand Shield
.922" O.D. tube		HOLDER WITH SHIELD	
LA392	# 3 Lever Action Holder (no valve)	LA392S	with Hand Shield
LA3922I	LA 3 Rubber Grommet for .922" O.D. tube		
LA3922F	# 3 LA Holder 3/4" NPT Thermal Shutoff (no valve)	LA392FS	with Hand Shield
LA3922FB	# 3 LA Holder w/ Ball Valve & 3/4" Thermal Shutoff	LA392FBS	with Hand Shield
LA3922FB-C	Same as LA392FB with CGA "C" Fitting	LA392FBS-C	with Hand Shield
1.05" O.D. tube or 3/4" pipe		HOLDER WITH SHIELD	
LA3105	# 3 Lever Action Holder (no valve)	LA3105S	with Hand Shield
LA3105I	LA 3 Rubber Grommet for 1.05" O.D. tube or 3/4" pipe		
LA3105F	# 3 LA Holder 3/4" NPT Thermal Shutoff (no valve)	LA3105FS	with Hand Shield
LA3105FB	# 3 LA Holder w/ Ball Valve & 3/4" Thermal Shutoff	LA3105FBS	with Hand Shield
LA3105FB-C	Same as LA3105FB with CGA "C" Fitting	LA3105FBS-C	with Hand Shield
NO SHIELD AVAILABLE FOR LA4 OR LA5 HOLDERS			
# 4 LEVER ACTION HOLDER for 1.250" tube or 1.315" O.D. tube or 1" pipe			
LA 41315	# 4 Lever Action Holder (no valve)		
LA41315I	LA 4 Rubber Grommet for 1.25" and 1.315" O.D. tube or 1" pipe		
LA 41315F4	# 4 LA Holder w/ 1 1/4" Thermal Shutoff		
LA 41315FB4	# 4 LA Holder w/ Ball Valve & 1 1/4" Thermal Shutoff		
1.315" Rubber Insert works for both 1.250 and 1.315 inch O.D.			
# 5 LEVER ACTION HOLDER for 1.66" O.D. tube or 1 1/4" pipe			
LA 5166	# 5 Lever Action Holder (no valve)		

LA5166I	LA 5 Rubber Grommet for 1.66" O.D. tube or 1 1/4" pipe
LA5166F	# 5 LA Holder w/ 1 1/4" Thermal Shutoff
LA5166FB	# 5 LA Holder w/ Ball Valve & 1 1/4" Thermal Shutoff

OXYGEN CONTROL VALVE



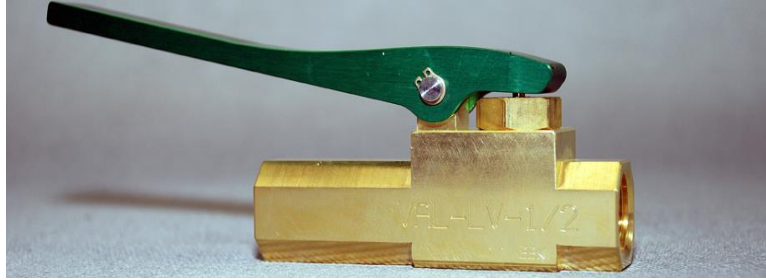
PART #	DESCRIPTION
VAL - OXY-1/2	1/2 " Ball Valve

APOLLO OXYGEN CLAENED BALL VALVE



PART #	DESCRIPTION
VAL3/8BALL	3/8" Ball Valve
VAL1/2 BALL	1/2 " Ball Valve
VAL3/4 BALL	3/4 " Ball V

OXYGEN LEVER VALVE



PART #	DESCRIPTION
VAL-V25	1/4" NPT LV Lever Valve
VAL-LV-1/2	1/2" NPT LV Lever Valve
VAL-LV-1/2-B	1/2" NPT LV Lever Valve w/ CGA "B" fitting
VAL-LV-1/2-C	1/2" NPT LV Lever Valve w/ CGA "C" fitting
VAL-LV-HG	Lever Valve Guard
VAL-LV-LK	Replacement Lever and Pin #9 Lever #8 Lever Pin Retaining Clip #10 Lever Pin
VAL-LV-LK	Repair Kit #2 Stem, #3 Spring, #4 Washer, #5 Stem O-Ring #6 Retaining O-Ring #7 Nut

Steel Mill Accessories

SLAG MEASURING DEVICES

PART #	DESCRIPTION
44"SLAGMEASUREMENT	44" SLAG MEASURE FLATTENED ON ONE END

HYDRUALIC CRIMPING MACHINE



Multi-voltage AC electric motor running a hydraulic pump for fixed position crimping operations.

PORTABLE CRIMPING MACHINE



Portable crimping machines offered in battery power or 110 AC power

OXYLANCE SURE CUT SYSTEM

APPLICATIONS

**STEEL MILLS / FOUNDRIES POWER PLANTS / EMERGENCY / RESCUE
REFINERIES/ Scrap Cutting**

Cleaning up metal spills Removing Boiler Tubes Train derailments Opening Tap Holes Remove / Replace Precipitators Breeching Operations Repairing Slag Pots Removing frozen pins Cutting Burglar Bars Cutting Refractory Repair Large Rollers Open doors w/ hardened deadbolts Cutting Skulls Gouging cracks in thick material Cutting collapsed structures Cutting Slag Cut / Pierce Concrete Cutting Guardrails Processing Scrap Cut Laminated material Used by Farm Medic teams Ferrous and Non Ferrous Smelters Cut steel underwater Military / Police.

The Sure Cut system is highly portable and was designed to run the smaller version of our burning bars. Oxy lance manufactures Sure Cut rods in outside diameters of 3/16", 1/4" and 3/8" and in lengths of 18", 24", 36" and 48". The Sure Cut system is excellent for repair and maintenance applications on heavy equipment and for rescue operations by Police, Fire and the Military. **The Sure Cut System will cut virtually any metal, both ferrous and non-ferrous, and is faster than conventional oxy-acetylene cutting. Our system does not require preheating or cleaning the material before cutting. It is easy to use and is cost effective for most applications.**

PAPER MILLS

Remove boiler tubes, precipitators and general maintenance. Remove frozen journals from rolls and piercing frozen pins.

Metal Fabrication

Pierce starter holes in thick plate for shape cutting machines. Gouge heavy weldments.

Railroad

A removal of derailed cars in remote locations. Repair rail cars and track repair and maintenance.

Construction

Repair highway guardrails. Scrap Removal and light demolition. Removal of rivets and bolts.

Cutting rebar in concrete.

Demolition

Removal of metal structures.

Cut steel out of concrete. Gouge heavy steel to facilitate controlled explosion demolition.

Power Plants

Remove old boilers and boiler tubes. Demolition of precipitators.

Foundries

Remove risers, gates and fins from castings. Cut up spills for re-melt and furnace clean up.

Scrap Yards

Cut up cast iron parts. Cut all types of scrap including stainless and many nonferrous metals.

Fire / Police / Military

Breaching operations, Rescue from collapsed structures

SEE SURE CUT SYSTEM ON PAGE 21

SURE CUT SYSTEM FEATURES

No Carbon Residue - Clean cuts with no carbon to grind away. Portable - It can be used in remote areas with the use of a 12 volt battery. Faster Sure Cut is as much as five times faster than oxy-acetylene cutting and up to ten times faster than Carbon Arch Gouging depending on the Thickness of material to be cut. Easy to Use - With Sure Cut equipment, all you need is an ignition source (Welder, 12 or 24 volt battery or torch) and oxygen to operate.

SURE CUT KITS



The Oxylance Sure Cut system will cut virtually any metal, both ferrous and non-ferrous, and is faster than conventional oxy-acetylene cutting or carbon arc gouging. The Sure Cut exothermic cutting rods don't require preheating or cleaning of the material prior to cutting. It is easy to use and is cost effective for most applications.

SURE CUT TOOL BOX KIT (with Rods)

PART NUMBER	DESCRIPTION
JRSC2024S	Tool Box Kit with Standard Holder and 12 each 3/8" x 24" and 12 each 1/4" x 24" Sure Cut Rods
JRSC2024S-REG	Tool Box Kit with Standard Holder and 12 each 3/8" x 24" and 12 each 1/4" x 24" Sure Cut Rods with Regulator

CONTENTS OF TOOLBOX KIT

JRSC2024S	Item Name
	Handle Assembly
25' x 5/16"	Oxygen Hose
25' x #4	Power Lead
25' x #4	Ground Lead w/ Strike Plate
1/4" and 3/8"	Collet
12 ea. 1/4" x 24"	Sure Cut Rods
12 ea. 3/8" x 24" OC	Quick Connect Sure Cut Rods
26"	Tool Box

STANDARD SURE CUT KIT (No Rods)

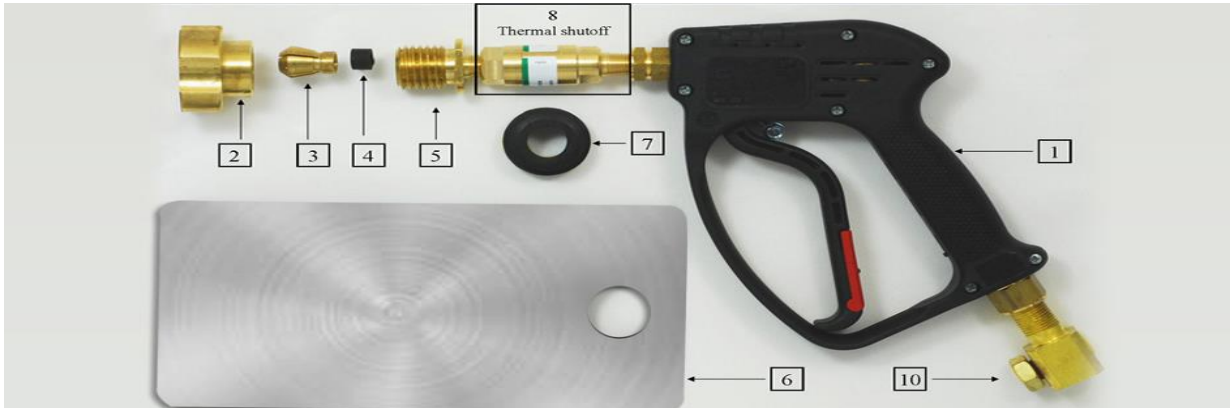
PART NUMBER	DESCRIPTION
JRSC2024S	Tool Box Kit with Standard Holder and 12 each 3/8" x 24" and 12 each 1/4" x 24" Sure Cut Rods
JRSC2024S-REG	Tool Box Kit with Standard Holder and 12 each 3/8" x 24" and 12 each 1/4" x 24" Sure Cut Rods with Regulator

CONTENTS OF TOOLBOX KIT

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	Handle Assembly
25' x 5/16"	Oxygen Hose
25' x #4	Power Lead
25' x #4	Ground Lead w/ Strike Plate
1/4" and 3/8"	Collet
12 ea. 1/4" x 24"	Sure Cut Rods
12 ea. 3/8" x 24" OC	Quick Connect Sure Cut Rods
26"	Tool Box

OPTIONAL HIGHFLOW OXYGEN REGULATOR

SURE CUT GUN PARTS



ITEM #	PART #	DESCRIPTION
1	JRSC2000-RL31	Handle Assembly
2	JRSC2000-2	Collet Nut
3	JRSC187-3	Collet for 3/16" (.1875" O.D.) Sure Cut Rod's
3	JRSC250-3	Collet for 1/4" (.250" O.D.) Sure Cut Rod's
3	JRSC375-3	Collet for 3/8" (.375" O.D.) Sure Cut Rod's
4	JRSC2000-4	Collet Grommet (seals collet bolt to collect)
5	JRSC2000-5	Collet Bolt (1/4" NPT male X collet seat)
6	JRSC2000-6	Curved hand shield
7	JRSC2000-7	Rubber insulator grommet for shield
8	OXY0250	Thermal shutoff/anti-slag safety device
10	JRSC2000-10	Power Block
11	FTHAW-142	3/8" NPT X CGA "B" fitting (for custom holder with no power block)
12	HL41X25	25' Oxygen hose (5/16" ID)
13	JRSC2000-13	25' Welding Lead
14	JRSC2000-14	Welding Lead Lug
15	JRSC2000-15	Alligator Clamp
16	JRSC2000-16	Copper Striker Plate
N/A	JRSC6-32SCREW	Shield Screw (not shown in drawing)
N/A	JRSC6-32TEENUT	Shield Tee Nut (not shown in drawing)
N/A	JRSC200-G4000	Repair parts kit for Oxygen Valve
N/A	JRSCBE43HP	Collet bolt extension
N/A	JRTB1	Black plastic carrying case (small)
N/A	JRTB2	26" tool box (pictured on page)
N/A	JRCENJ900	Ignitor Pack (900 AMP battery pack)

SURE CUT CUTTING RODS

1/4" CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
25B24	1/4" X 24" Sure Cut Rod (bare)	3 to 5 cfm / 1 Minute	7 lbs..	14 lbs..
25B36	1/4" X 36" Sure Cut Rod (bare)	3 to 5 cfm / 1.5 Minute	11 lbs..	22 lbs..
25B48	1/4" X 48" Sure Cut Rod (bare)	3 to 5 cfm / 2 Minute	14 lbs..	28 lbs..

3/8" CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
37B24	3/8" X 24" Sure Cut Rod (bare)	5 to 8 cfm / 1 Minute	11 lbs..	22 lbs..
37B36	3/8" X 36" Sure Cut Rod (bare)	5 to 8 cfm / 1.5 Minute	17 lbs..	34 lbs..
37B48	3/8" X 48" Sure Cut Rod (bare)	5 to 8 cfm / 2 Minute	22 lbs.	44 lbs.

3/8" CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
37B24QC	3/8" X 24" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 1 Minute	11 lbs.	22 lbs.
37B36QC	3/8" X 36" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 1.5 Minute	17 lbs.	34 lbs.
37B48QC	3/8" X 48" Quick Connect Sure Cut Rod (bare)	5 to 8 cfm / 2 Minute	22 lbs.	44 lbs.

INSULATED CUTTING RODS

Insulated rods are only necessary when a continuous arc process is used

1/4" CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
25B24I	1/4" X 24" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 1 Minute	8 lbs...	16 lbs.
25B36I	1/4" X 36" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 1.5 Minute	13 lbs.	26 lbs.
25B48I	1/4" X 48" Sure Cut Insulated Rod (coated)	3 to 5 cfm / 2 Minute	16 lbs.	32 lbs.

3/8" CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
37B24I	3/8" X 24" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1 Minute	13 lbs.	26 lbs.
37B36I	3/8" X 36" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1.5 Minute	19 lbs.	38 lbs.
37B48I	3/8" X 48" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 2 Minute	24 lbs.	48 lbs.

3/8" INSULATED QUICK CONNECT CUTTING RODS

Part #4	Description	O2 Flow/Burn Time	Weight	Weight
			25 PC Box	50 PC Box
37B24QCI	3/8" X 24" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1 Minute	13 lbs.	26 lbs.
37B36QCI	3/8" X 36" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 1.5 Minute	19 lbs.	38 lbs.
37B48QCI	3/8" X 48" Sure Cut Insulated Rod (coated)	5 to 8 cfm / 2 Minute	24 lbs.	48 lbs.

SURE CUTTING RODS - Are Available in 3/16" By Special Order

Part #	Description (bare)	Part #	Description (insulated)
18B18	3/16" X 18" Sure Cut Rod (bare)	18B18I	3/16" X 18" Sure Cut Rod (insulated)
18B24	3/16" X 24" Sure Cut Rod (bare)	18B24I	3/16" X 24" Sure Cut Rod (insulated)
18B36	3/16" X 36" Sure Cut Rod (bare)	18B36I	3/16" X 36" Sure Cut Rod (insulated)

OXYGEN LANCE HOSE 300 PSI



PART #	DESCRIPTION
HL1/2X50C	Lance Hose 1/2" id X 50 feet long with CGA "C" fittings
HL1/2X75C	Lance Hose 1/2" id X 75 feet long with CGA "C" fittings
HL1/2X100C	Lance Hose 1/2" id X 100 feet long with CGA "C" fittings
HL1/2X150C	Lance Hose 1/2" id X 150 feet long with CGA "C" fittings
HL3/4X50D	Lance Hose 3/4" id X 50 feet long with CGA "D" fittings
HL3/4X100D	Lance Hose 3/4" id X 100 feet long with CGA "D" fittings
HL3/4X125D	Lance Hose 3/4" id X 125 feet long with CGA "D" fittings
	Oxylance Inc. recommends minimum of 1/2" hose for all burning bar applications.

IF 3/8" HOSE IS USED IT MUST BE A SINGLE RUN OF HOSE WITH NO SPLICES OR CONNECTORS THAT WILL RESTRICT THE OXYGEN FLOW. REPAIRING 3/8" HOSE OR JOINING 2 SECTIONS TOGETHER WILL REDUCE THE FLOW TOO MUCH FOR THE BURNING BAR TO OPERATE PROPERLY. WE WILL NOT BE RESPONSIBLE FOR BURNING BAR PERFORMANCE IF USED WITH 3/8" HOSE.

PART #	DESCRIPTION
HL3/8X25B	Lance Hose 3/8" id X 25 feet long with CGA "B" fittings
HL3/8X50B	Lance Hose 3/8" id X 50 feet long with CGA "B" fittings
HL3/8X75B	Lance Hose 3/8" id X 75 feet long with CGA "B" fittings
HL3/8X100B	Lance Hose 3/8" id X 100 feet long with CGA "B" fittings
HL3/8X50C	Lance Hose 3/8" id X 50 feet long with CGA "C" fittings
HL3/8X75C	Lance Hose 3/8" id X 75 feet long with CGA "C" fittings
HL3/8X100C	Lance Hose 3/8" id X 100 feet long with CGA "C" fittings

PROTECTIVE CLOTHING FOR LANCING

KEVLAR PROTECTIVE CLOTHING

For maximum protection from heat, slag and spatter during cutting operations we recommend Aluminized Kevlar protective clothing.



This type of clothing offers greater protection than leathers or flame retardant materials. For Aluminized Jacket the last letter in the part number is the size i.e. ALKEVJACL is for the Large

PART #	DESCRIPTION
ALKEVGLOV	Aluminized Kevlar Gloves (Aluminized back Kevlar palm)
ALKEVJACM	19 oz. Aluminized Kevlar 30" Medium Jacket

ALKEVJACL	19 oz. Aluminized Kevlar 30" Large Jacket
ALKEVJACXL	19 oz. Aluminized Kevlar 30" Extra Large Jacket
ALKEVJACXXL	19 oz. Aluminized Kevlar 30" Double X Jacket
ALKEVCHAPSM	19 oz. Aluminized Kevlar Chaps Medium
ALKEVCHAPSL	19 oz. Aluminized Kevlar Chaps Large
ALKEVCHAPSXL	19 oz. Aluminized Kevlar Chaps X Large
ALKEVCHAPSXXL	19 oz. Aluminized Kevlar Chaps X X Large
ALKEVLEG	19 oz. Aluminized Kevlar 15" Leggings (boot cover)
ALKEVHOOD	19 oz. Aluminized Kevlar Hood.

COOL SHIRT SYSTEM

A complete Cool Shirt system consist of a Cooler, Shirt, Hose and Required fire protection bag and hose cover.



The units can be used either with 110 volt AC power or a car battery. If not being used for welding or cutting applications the fire proof bag and hose cover are not required. If being used on a fork lift or other heavy equipment the 110 volt transformer is not required. Call Oxylance to discuss your particular application.

PART #	DESCRIPTION
CS-OX-110-24	24 Quart Personal Cooling System Cooler w/ 110 / 12 volt transformer
CS-OX-24	24 Quart Cooler (wired for hooking into ignition on equipment)
CS-OX-MT-24	Mounting Tray for equipment with hold down straps
CS-OX-MPS	Multi Person Cooling System Cooler (110 volt only)
CS-OX-BP	Back Pack Cooler w/ Battery and Charger
CS-OX-BP-7AHB	Back Pack Cooler w/ 7 hour Battery and Charger
CS-OX-WP	Waist Pack Cooler w/ Battery and Charger
CS-OX-WP-7AHB	Waist Pack Cooler w/ 7 hour Battery and Charger
CS-OX-BCW-S	Small Cool Shirt
CS-OX-BCW-M	Medium Cool Shirt
CS-OX-BCW-L	Large Cool Shirt
CS-OX-BCW-XL	Extra Large Cool Shirt
CS-OX-BCW-XXL	Double Extra Large Cool Shirt
CS-OX-BCW-XXXL	Triple Extra Large Cool Shirt
CS-OX-BCWH-S	Small Cool Shirt with attached Cool Hood
CS-OX-BCWH-M	Medium Cool Shirt with attached Cool Hood
CS-OX-BCWH-L	Large Cool Shirt with attached Cool Hood

CS-OX-BCWH-XL	Extra Large Cool Shirt with attached Cool Hood
CS-OX-BCWH-XXL	Double Extra Large Cool Shirt with attached Cool Hood
CS-OX-BCWH-XXXL	Triple Extra Large Cool Shirt with attached Cool Hood
CS-OX-H-10	10 foot Cool Shirt Hose w/ connectors
CS-OX-H-20	20 foot Cool Shirt Hose w/ connectors
CS-OX-CH-10	10 foot Cool Shirt Hose w/ connectors and flow control valve
CS-OX-CH-20	20 foot Cool Shirt Hose w/ connectors and flow control valve
CS-OX-C-FLM	Female hose connector (replacement part for hoses)
CS-OX-C-MLS	Male hose connector (replacement part for hoses)
CS-OX-24-B	Fire Proof Cooler Bag for 24 Quart Cool Shirt Cooler
CS-OX-HC-10	10 foot Fire Proof Cover for 10' Cool Shirt Hose
CS-OX-HC-20	20 foot Fire Proof Cover for 20' Cool Shirt Hose
CS-OX-AD-110	110 Volt to 12 Volt Transformer
CS-OX-W/B-CHAR	Charger for battery packs
CS-OX-BPB-4H	4 Hour battery
CS-OX-WPB-7H	7 Hour battery
CS-OX-MA-16	Maintenance additive solution 16 oz. bottle
CS-OX-MAC-16	Case of 12, 16 oz. bottles of maintenance additive solution