



SALDOTECNICA EUROPE SRL
since 1946

GENERAL CATALOGUE / 2020



شرکت انرژی البرز رایان
نماینده انحصاری در ایران

ENERGY ALBORZ RAYAN
www.earogc.com



4 - 8

Complete Machinery & systems for in-line cutting of billets, blooms and slabs

سری کامل ماشین آلات برش بر خط شمشال، تختال و شمشه و ماشین آلات جهت پلیسه گیری از مقاطع فولادی و ...

PLANT EQUIPMENT

ماشین آلات

1

9 - 14

Manual and machine torches for cutting, scarfing and deburing
سری کامل تورچ برای برش، پلیسه گیری و همچنین تورچ های دستی

OXYGEN CUTTING

تورچ های برش هوا گاز

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Pre-heating and drying stations : ladle and tundish snorkels
سیستم کامل گرمایش و خشک کن: جهت ریخته گری

HEATING

سیستم گرمایش

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16 - 19

Complete series of lances (carbon - oxygen)
سری کامل لنس اکسیژن و کربن

BLOWING

تجهیزات دمش

4

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Safety valves for above systems and machines
سری کامل شیرهای اطمینان جهت تجهیزات فوق الذکر

SAFETY VALVES

شیرهای اطمینان

5

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accessories for machinery (control units , fluid control units & ...)
تجهیزات جانبی جهت ماشین آلات فوق الذکر مانند تابلو کنترل، شلنگ ها و ...

ACCESSORIES

تجهیزات جانبی

6



درباره انرژی البرز رایان

شرکت انرژی البرز رایان با هدف ارائه خدمات مهندسی، بازرگانی و تجهیز صنایع فولاد و انرژی (پروژه های صنعت نفت، گاز، پتروشیمی و پالایش) در سال ۹۲ آغاز به کار نموده است. این مجموعه با بهره گیری از توان علمی و مهندسی متخصصین خود و همراه ساختن آن با تیم بازرگانی با تجربه خود توانسته به عنوان تامین کننده در صنایع فولاد و بالادستی و پایین دستی صنعت نفت فعالیت نماید.

در کنار هدف اصلی شرکت که همان تامین و تجهیز صنایع انرژی میباشد، دو هدف اصلی دیگر نیز به عنوان رسالت این شرکت در دستور کار خود قرار داده که پیوسته توسط هیئت موسس بر این موضوع تاکید و پیگیری های لازم در خصوص آن صورت گرفته است.

۱- مطالعه در خصوص تکنولوژی های جدید صنایع فولاد و نفت و گاز که در کشورهای اروپایی طراحی و تولید شده و در واحد های پتروشیمی و یا پالایشی و شرکت های فولاد ساز خارجی مورد بهره برداری قرار گرفته که نتیجه آن کاهش خطرات و ریسک های موجود و همچنین کاهش زمان مورد نیاز جهت تعمیرات و یا نوسازی واحد ها و بالا بردن ایمنی واحد ها میباشد که در این راستا موفق به اخذ نمایندگی های ذیل شده است.

SALDOTECHNICA EUROPE S.R.L از کشور ایتالیا که یکی از با کیفیت ترین و قدیمی ترین شرکت های طراح و تولید کننده ماشین آلات و ملزومات برش فولاد در دنیا میباشد.

ONIS line blind از کشور فرانسه که اولین ارائه دهنده تجهیز بلاین دینگ بدون خطر و در زمان کم و ایمنی بالا میباشد. که اولین بار در ایران توسط شرکت انرژی البرز رایان ارائه شده است.

۲- تامین تجهیزات سفارشی که میتواند بر طبق نیاز مجموعه ها با اندازه ها و استانداردهای مورد نیاز تولید و ارائه گردد. از اقدامات دیگر این شرکت میتوان به مطالعه مهندسی و ارائه راهکار مشکلات عملیاتی موجود در مجموعه ها ذکر کرد که یکی از نمونه های آن ارائه راهکار به شرکت فولاد مبارکه در خصوص جلوگیری از خاموش کردن و یا کلاسه شدن کوره در زمان تعمیر و یا تعویض لوله های HEAT EXCHANGER میباشد. امید است بتوانیم در آینده به عنوان بازویی پرتوان نقش اساسی و موثری را در این صنعت برای کشور عزیزمان ایران ایفاء نماییم.

About Saldotecnica

Our company structure counts on an organized warehouse that allows us to respond to the needs of our customers in a short time. We can then count on two independent operative centers where precision machining is carried on our components and to a carpentry for our machines, the same are then assembled by us before shipment. 1977 The first slab cutting machine is sold.

Over the years, we have implemented our production with special equipment and machinery for heating, welding, cutting and scarfing. Today we are able to assist customers not only with our standard production, but also offering all the spare parts, structural work and mechanical parts.

1981 The first gouging machine is sold. With a history of over 70 years, Saldotecnica is a pioneer in the field of oxy-cutting. Always rooted in the territory in which saw born 70 years ago thanks to the intuition of its official founder Cav. Saldotecnica been able to adapt to the continuous innovation of the iron and steel industry going half a century and facing the new millennium as a reference point in oxycutting technology.

1975 The turning point that leads Saldotecnica to become a leading company in the world of oxycutting, in fact, begins the design and construction of complete systems for in-line cutting of billets, blooms and slabs. In collaboration with the US company, UCC develops machines for cold and hot scarfing. 1970 Saldotecnica Ligure is born as a manufacturer of oxycutting equipment such as manual torches for shipbuilding.



I BILLETS / BLOOMS CUTTING MACHINE

The Saldotecnica Europe plants are designed according to the different needs of the individual customer following the principle "Taylor made" which is a value that has always distinguished our company.

The machines are designed based on the layout of the plant, type of cast steel, cutting sections, casting speed and specific customer requirements.

The cutting machines are designed and built to meet the needs of strength, durability and performance required today by customers, are developed to integrate perfectly on the continuous billets / blooms on the plant.

We can supply torch cutting lines for curved and vertical casting lines.



The wagons on which the oxy-fuel systems are installed are made with welded steel structures with characteristics suitable for operating in harsh environments such as those of the steelworks, are designed with cooling systems on the most exposed areas and have characteristics as listed below:

- Sturdy steel structure;
- Handling wheels in quality steel;
- Linear actuators with potentiometer and limit switch inverter for position control and torch movement;
- Gearmotors for the movement of the cars with electromagnetic clutch;
- Pneumatic billet clamping system;
- Water cooled lower carriage structure and lower panel with quick-release system;
- Water cooled clamps;
- Independent granulation system;
- Limit and proximity switches for high temperatures;
- "Burrless" high pressure oxygen cutting tip HR Series;
- UPS Uninterruptible Power Supply;
- Remote PLC internet connection.

Options:

- Fixed or mobile sample cutting system;
- Anti-leaking system - scarfing;
- Mechanical knife deburring system (see "deburrer" section);
- Measuring roller;
- Front - back cooled screens;
- Quick torch release system;
- Powder cutting system for high quality steel or stainless steel;
- Cooling screens and stainless steel frame;
- Roller for cooled billet support;
- Electric or pneumatic brake parking system;
- Development of special applications on request;
- Pilot flame with automatic electronic ignition;
- Flame detection system.

Main operating features: Cutting sections:

Square from 120mm to 600 mm Round from 120mm to 1050 mm Beam blanks 450 x 1000

	S275JR	39NiCrMo3	18NiCrMo5
Casting speed	2.5 m/min	2.5 m/min	2.5 m/min
Cutting speed	590 mm/min	500 mm/min	485 mm/min
Temperature °C	800	800	800
Dimension	160x160	160x160	160x160



I SLAB / PLAT CUTTING MACHINE

The Saldotecnica Europe cutting machines are designed and built to meet the requirements of strength, durability and performance demanded today by the customers, they are designed to perfectly integrate on the slabs plants continuous castings lines.



The structure on which the oxy-fuel systems are installed is made with a welded steel structure with characteristics suitable to operate in harsh environments such as meltshops, it is designed with cooling systems on the most heat exposed areas and features characteristics as listed below:

- Sturdy steel structure;
- Handling wheels in quality steel;
- Gearmotors for moving the machine according to the electrical axis;
- Double cutting carriage driven by brushless motors;
- Pneumatic slab hooking system with pusher;
- Cooled panels on the bottom on the sides and on the back of the machine;
- Cooled barrel coupling system;
- Granulation system;
- Limit and proximity switches for high temperatures;
- Cutting tip for high pressure oxygen (20 bar) "Burrless" series HR;
- UPS Uninterruptible Power Supply;
- Remote PLC internet connection.

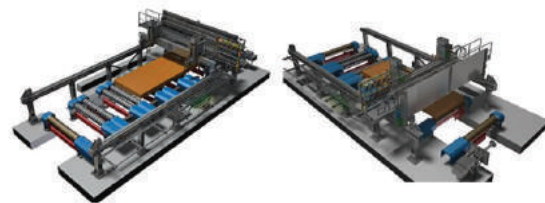
Main operational characteristics:
Cutting sections: 150-400 shims / 1200-2800 width

Steel grades examples:

	S275JR	39NiCrMo3	18NiCrMo5
Casting speed	2 m/min	2 m/min	2 m/min
Cutting speed	510 mm/min	460 mm/min	445 mm/min
Temperature °C	800	800	800
Dimension	200x2000	250x2000	350x2000

Options:

- Fixed or mobile sample cutting system;
- Measuring roller;
- Quick torch release system;
- Powder cutting system for high quality steel or stainless steel;
- Cooling screens and stainless steel frame;
- Development of special applications on request;
- Pilot flame with automatic electronic ignition;
- Flame detection system.



Saldotecnica wagons are machines designed according to the different needs of the individual customer following the principle "Taylor made" which is a value that has always distinguished our company.

The machines are designed based on the layout of the plant, type of cast steel, cutting sections, casting speed.



I DEBURRING MACHINES

The Deburring machines are designed to remove leaks that form on the edge of the profile as a result of the oxy-fuel process. Saldotecnica Europe designs and builds Deburring systems for Billet Blom and Slabs casting lines.

The machines are designed according to the different needs of the individual customer.

The machines are designed on the basis of the layout of the plant, type of cast steel, cutting sections, casting speed specific and other specific customer requests.



The structures on which the Deburring systems are installed are made with welded steel structures having characteristics suitable to operate in harsh environments such as those of the meltshops, and are designed with pneumatic handling systems.



Options:

Bur removal system using a high pressure jet of oxygen.
Main operational characteristics.

Cutting sections:

Square from 120mm to 600 mm

Round from 120mm to 600 mm

Beam blanks 450 x 1000

Slab 2800



I SCARFING MACHINE

Saldotecnica Europe scarfing machines are designed and built to meet the requirements of robustness, durability and performance demanded today by customers.



The structure on which the scarfing systems are installed is made with a welded steel structure having characteristics suitable to operate in harsh environments such as those of the meltshops, it is designed with cooling systems on the most exposed hear areas and features characteristics as listed below:

- Sturdy steel structure;
- Handling wheels in quality steel;
- Gearmotors for moving the machine according to the electrical axis;
- Gouging carriage driven by brushless motors;
- Cooled panels on the bottom on the sides and on the back of the machine;
- Granulation system;
- Limit and proximity switches for high temperatures;
- Scarfing nozzles for high pressure oxygen;
- UPS Uninterruptible Power Supply;
- Remote PLC internet connection.

Options:

- Slab measuring system room;
- Automatic scarfing cycle;
- Quick torch release system;
- Development of special applications on request;
- Pilot flame with automatic electronic ignition;
- Flame detection system.

Main operational characteristics.

Gouging sections:
100-3000 shims
200-3000 width

The Saldotecnica machines are machines designed according to the different needs of the individual customer following the principle "Taylor made" which is a value that has always distinguished our company.

The machines are designed based on the layout of the plant, type of cast steel, cutting sections, casting speed.



I SCRAP CUTTING MACHINES

Saldotecnica Europe scraping machines are built and designed on the basis of our long experience in large thicknesses cutting field. Are designed to operate with continuous cutting cycles in very harsh environments that expose the machine to continuous thermal and mechanical stress.

The machines can be configured according to the different needs of the customer, and their sizing is developed as a function of productivity, cutting thicknesses and types of steel.



Main characteristics:

- Sturdy steel structure;
- Handling wheels in quality steel;
- Portal structure or single-arm cooled;
- Gearmotors for handling the machine;
- Trolleys for torches equipped with brushless gear motors;
- Soundproofed operator cabinet;
- Soundproof "dog-house" fume extraction hood;
- Limit and proximity switches for high temperatures;
- Special cutting tip for large thicknesses;
- UPS Uninterruptible Power Supply;
- Remote PLC internet connection.

Options:

- Smoke suction system;
- Cutting system with iron powder;
- Remote control.

Main operational characteristics.
Cutting sections: up to 2200mm.



I AUTOMATIC TORCHES



Mod. SL/CAV3

Hot Cutting Torch

Cutting Nozzle: Style SL/AV3

Water cooled torch

Usually installed on Caster T. Cutting Machine

SG Style without back feeding body

Feeding Connection:

Cutting Oxygen 3/4" Rh

Heating Oxygen 1/2" Rh

Heating Gas 3/4" Lh

Water In / Out 1/2" Rh / 1/2" Rh

Different connections upon request



Mod. SL/CMCE-SR

Cold Cutting Torch

Cutting Nozzle: Style SL/MCE - Mod. SL/TL

Feeding Connection standard :

Oxygen 3/4" Rh - 1/2" Rh

Heating Gas 3/4" Lh

32 Style— Torch Body 32 mm Without back body

L Style Smart Feeding Connection:

Cutting Oxygen 1/2" Rh - 3/8" Rh

Heating Gas 3/8" Lh

Different connections upon request



Mod. SL/CAV

Hot Cutting Torch

Cutting Nozzle: Mod. SL/AV-AVC-AVM-AV/TP

Water cooled torch

Usually installed on Caster T. Cutting Machine

SG Style without back feeding body

Feeding Connection:

Cutting Oxygen 3/4" Rh Heating Oxygen 1/2" Rh

Heating Gas 3/4" Lh

Water In / Out 1/2" Rh / 1/2" Rh

Different connections upon request



Mod. SL/CMCE

Hot Cutting Torch

Cutting Nozzle: Style SL/MCE-MEH

Water cooled torch

Usually installed on Caster T. Cutting Machine

SG Style without back feeding body

Feeding Connection:

Cutting Oxygen 3/4" Rh

Heating Oxygen 1/2" Rh

Heating Gas 3/4" Lh

Water In / Out 1/2" Rh / 1/2" Rh

Different connections upon request



I AUTOMATIC TORCHES



Mod. **SL/CMC**

Hot Cutting Torch

Hot Cutting Torch

Cutting Nozzle: **SL/MCR-MC-MDR**

Water cooled torch

Installed on Torch Cutting Machine for CCM

SG Style without back feeding body

Feeding Connection:

- Cutting Oxygen 3/4" Rh
- Heating Oxygen 1/2" Rh
- Heating Gas 3/4" Lh
- Water In / Out 1/2" Rh / 1/2" Rh

Different connections upon request



Mod. **SL/C2000**

High Thickness Cutting Torch

Cutting Nozzle: Style **SL/2000**

Water cooled torch

Torch body D. 70 mm

Iron powder feeding equipment / option

SG Style without back feeding body

Feeding Connections / Different upon request:

Cutting Oxygen 1" Rh

Heating Oxygen 3/4" Rh

Heating Gas 3/4" Lh + Gas Add. 1" Lh

Water In / Out 1/2" Rh - 1/2" Rh



Mod. **SL/C1200**

High Thickness Cutting Torch

Cutting Nozzle: Style **SL/1200**

Water cooled torch

Torch body D. 50 mm

Iron powder feeding equipment / option

SG Style without back feeding body

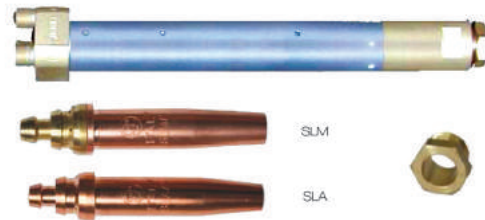
Feeding Connections / Different upon request:

Cutting Oxygen 1" Rh

Heating Oxygen 3/4" Rh

Heating Gas 1" Lh

Water In / Out 3/4" Rh - 3/4" Rh



Mod. **SL/COGNE**

Cutting Torch

Cutting nozzle: Style **SLA/SLM**

Installed at cold plate cutting

Torch body D. 32 mm

Feeding connection **Cogne Art.95350:**

Cutting / Heating Oxygen 1/4" Rh

Heating gas 1/4" Lh

Feeding connection **Cogne/Super Art.95550**

Cutting / heating Oxygen 3/8" Rh

Heating Gas 3/8" Lh

Different length upon request



I AUTOMATIC TORCHES

Mod. **SL/CPR**

Cutting Torch / Equivalent 832

Cutting nozzle: Style **PR**

Installed at cold plate cutting

Torch body D. 32 mm

Feeding connections:

Cutting Oxygen 3/8" Rh

Heating Oxygène 1/4" Rh

Heating Gas 3/8" Lh

Different lenght upon request



I EMERGENCY TORCHES



GS

10274



AV

MCE

GS

10274

MCE-96311

Mod. **IMP/2**

Scrap Cutting torch

Standard Cutting nozzle: Style **GS**

Cutting capacity: up to 600 mm

Oxygen cutting opening by: **hand wheel**

Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh

Brass head and SS pipes

Upon request:

- SS head
- Different cutting nozzle fitting

Mod. **IMP/TE**

Emergency Cutting torch

Standard Cutting nozzle: Style **AV**

Cutting power up to 600 mm

Oxygen cutting opening by: **lever**

Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh

Standard: Brass head and SS pipes

Upon request:

- Beam blank slides
- Nozzle **GS - SL/MCE** upon request



I EMERGENCY TORCHES



(MCE) (A richiesta / upon request)

GS

10274

Mod. IMP/TL

Emergency Cutting torch

Standard Cutting nozzle: Style **GS**

Cutting power up to 600 mm

Oxygen cutting opening by: **lever**

Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh

Standard: Brass head and SS pipes

Upon request:

- SS head
- Different nozzle **SL/AV SL/MCE**



SLM

SLA

10064

Mod. SLR

Cutting Torch for maintenance

Cutting nozzle: Style **SLA o SLM**

Cutting capacity: up to 300 mm / option 500 mm

Oxygen cutting opening by: **lever**

Inlet Conn.: Oxygen 3/8" Rh / Gas 3/8" Lh

Brass head and SS pipes

Upon request:

- SS head
- Different head angle

Mod. SL/SER

Iron powder tank

Portable

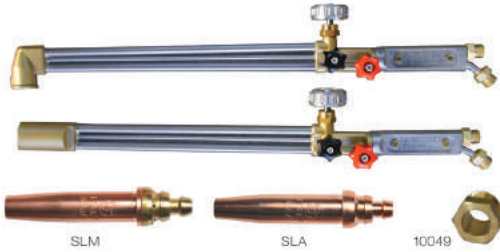
Use with nitrogen or dry compressed air

Pressure reducer and mixer included





I MANUAL TORCHES



Mod. CN/S

Cutting Torch for maintenance

- Cutting nozzle: Style **SLA** o **SLM**)
 Cutting capacity: up to 300 mm / option 500 mm
 Oxygen cutting opening by: **hand wheel**
 Inlet Conn.: Oxygen 3/8" Rh / Gas 3/8" Lh
 Brass head and SS pipes
 Upon request:
- SS head
 - Different head angle



Mod. IMP/2

Scrap Cutting torch

- Standard Cutting nozzle: Style **GS**
 Cutting capacity: up to 600 mm
 Oxygen cutting opening by: **hand wheel**
 Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh
 Brass head and SS pipes
 Upon request:
- SS head
 - Different cutting nozzle fitting



Mod. IMP/3

Scrap Cutting torch

- Standard Cutting nozzle: Style **GS**
 Cutting capacity: up to 600 mm
 Oxygen cutting opening by: **hand wheel**
 Inlet Conn.: Oxy 3/8"Rh + 3/8" Rh / Gas 3/8" Lh
 Brass head and SS pipes
 Upon request:
- SS head
 - Different head angle

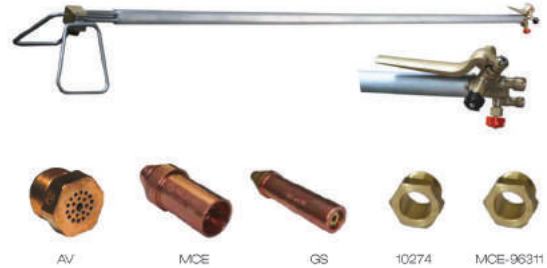
Mod. IMP/SL

Cutting Torch for maintenance

- Cutting nozzle: Style **SLA** o **SLM**
 Cutting capacity: up to 500 mm
 Oxygen cutting opening by: **lever**
 Inlet Conn.: Oxygen 3/8" Rh / Gas 3/8" Lh
 Brass head and SS pipes
 Upon request:
- SS head
 - Different head angle



I MANUAL TORCHES



Mod. IMP/TL

Emergency Cutting torch

Standard Cutting nozzle: Style **GS**

Cutting power up to 600 mm

Oxygen cutting opening by: **lever**

Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh

Standard: Brass head and SS pipes

Upon request:

- SS head
- Different nozzle **SL/AV SL/MCE**

Mod. IMP/TE

Emergency Cutting torch

Standard Cutting nozzle: Style **AV**

Cutting power up to 600 mm

Oxygen cutting opening by: **lever**

Inlet Conn.: Oxygen 1/2" Rh / Gas 3/8" Lh

Standard: Brass head and SS pipes

Upon request:

- Beam blank slides
- Nozzle **GS - SL/MCE** upon request

Mod. SLHR

Cutting Torch for maintenance

Cutting nozzle: Style **SL/HR**

Cutting capacity: up to 300 mm

Oxygen cutting opening by: **lever**

Inlet Connection.: Oxygen 3/8" Rh / Gas 3/8" Lh

Brass head and SS pipes





I HEATING



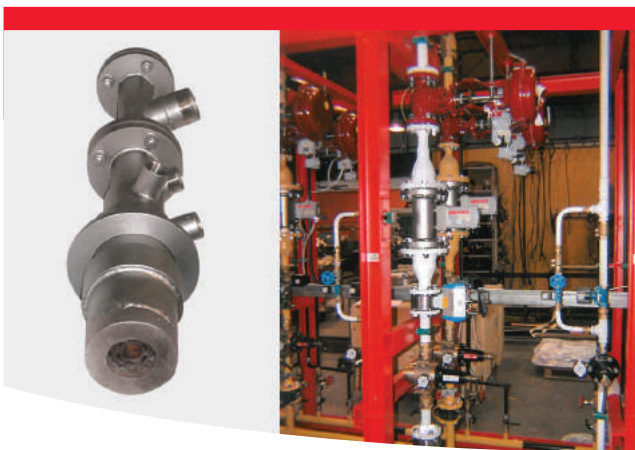
Ladle and tundish preheat stations

Pre-heating and drying Station:
Ladles and Tundishes
Snorkels

Standard:
Air / Gas

Special:
Oxygen / Gas

Custom built machines according to our Customer' needs and requirements.



Electric are furnace (oxygen technik up to 10 MW)

This system allows the transfer of chemical Energy into the furnace for the highest process efficiency.

Burners can be operated in three modes:
for heating, melting and post combustion.

Supersonic for post combustion, refining and slag roaming.

The carbon is injected to balance oxygen during melting and refining



Electric are furnace (robot servicing steel making)

This system allows to feed oxygen, carbon, gases or powder into the furnace for steel refining.

Our manipulator could be fitted with special lances for Temperature and sampling.

Standard installation is at the opening of the furnace or for emergency it is installed at the top furnace.



I BLOWING LANCES

Carbon and Oxygen Lances

Mod. SPACE

We would like to inform you with great pleasure that SALDOTECHNICA has designed a new oxygen lance equipment;

its name is **SPACE**

its main features are:

mould and working temperature up to 1500°C.

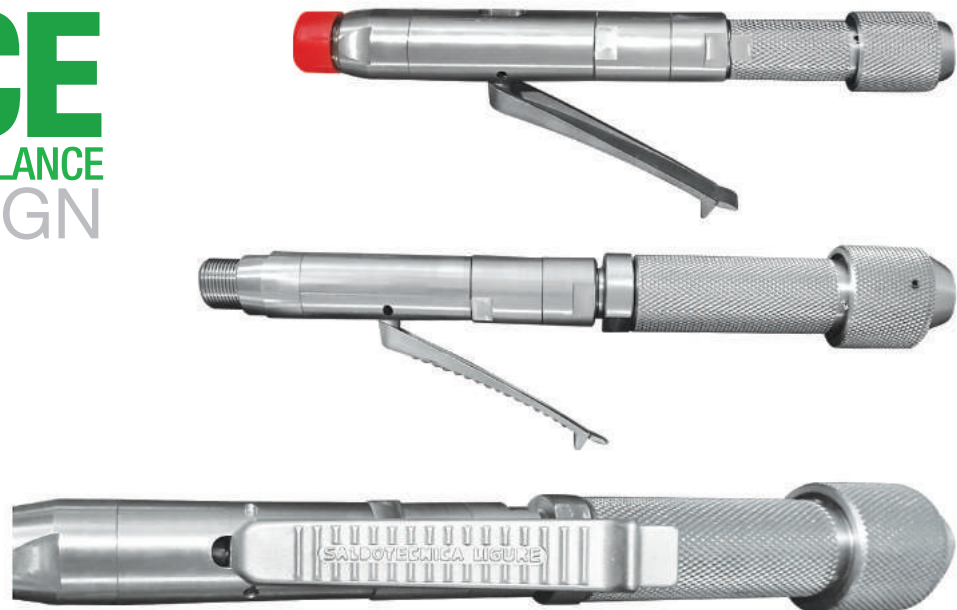
durable and long-life

secret material belongs to aerospace application with a weight of 45% LESS !!

we could supply from 6mm up to 1/2" which are the most common use in manual

SPACE

MANDREL OXYGEN LANCE
NEW DESIGN



This is to announce that Energy Alborz Rayan is the first partner who SALDOTECHNICA informed and Metafo 2019 is the first place which this equipment presented .

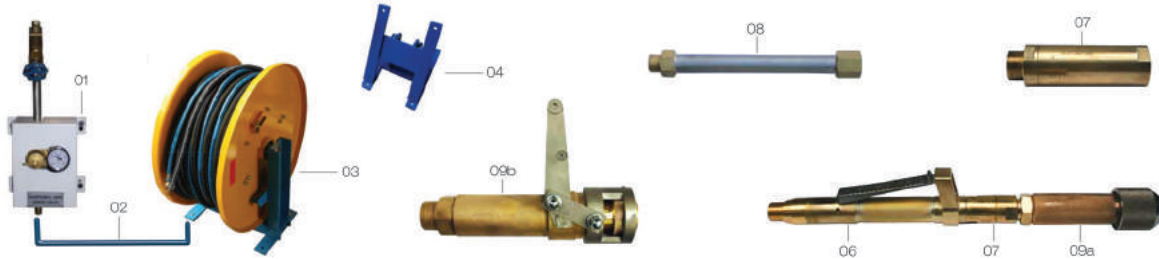


BLOWING LANCES

Carbon and Oxygen Lances

Mod. LAY-OUT

STANDARD LAY-OUT



STANDARD LAY-OUT	Pos.	P.n.				Page n.
		Lance 6mm - 3/8"	Lance 1/2"	Lance 3/4"	Lance 1"	
	01	94251	94251 / 94351	94351	94351	
	02	93610	93620	93630	93632	
	03	94000	94000 / 94030	94030 / 94070	94110	
	04	94245				
	05	93610-20R3/4	93610-20R3/4 93620-20R3/4	93620-20R1 93630-20R1	93632-10R1-1/4 93632-10R1-1/2	
	06	9300-60l		93350VS	93370VS / 93370SVS	
	07	93300-40V	933VT-02	933VT-03	933VT-01 / 933VT-01R	
	08	933SE400-01 / 933SE600-01		933SE600-02	933SE600-03	12-13
	09	93300M-93340M	93360M	93350M	93370M	12-13

Mod. SL/04

Compact equipment for Oxygen Lances

Lance holder:

- turnable stainless steel head
- ball bearing inside
- steel chuck and neoprene seals
- body in brass58

Safety valve included

Handle with lever valve

Working pressure up to 40 Bar



SL/04	Code	Lance	Connection.
	93502	6 mm	3/4"
	93505	8 mm	3/4"
	93504	1/8"	3/4"
	93503	1/4"	3/4"
	93501	3/8"	3/4"
	93500	1/2"	3/4"



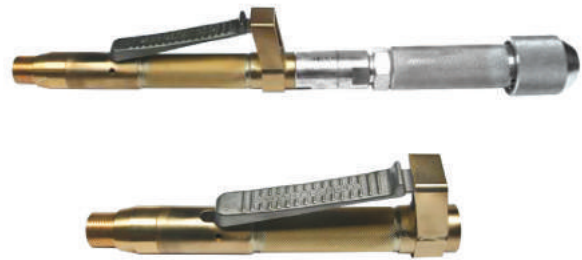
BLOWING LANCES

Carbon and Oxygen Lances

Mod. SL/82

Quick Handle SL/82

Installed on lance holder SL/82
Working pressure up to 40 Bar



	P.n.	Lance	Conne.	Lenght /mm
SL/82	933501	3/4"	1"	
	93300-61	6 mm	3/4"	
		8 mm	3/4"	
		1/8"	3/4"	
		1/4"	3/4"	
		3/8"	3/4"	
1/2"	3/4"			

Mod. SL/82

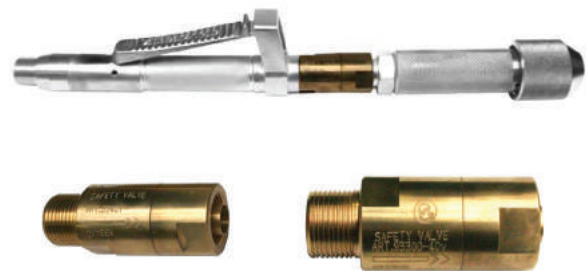
Safety Valve SL/82

To be mounted behind the lance holder SL/82

Valve with 3 safety levels:

1. Protection against incorrectly fitting
2. Unidirectional valve
3. Non return valve

Working pressure up to 40 Bar



	P.n.	Lance	Conne.	Lenght /mm
SL/82	93300-40V	6 mm	3/4"	
		8 mm	3/4"	
		1/8"	3/4"	
		1/4"	3/4"	
		3/8"	3/4"	
		1/2"	3/4"	



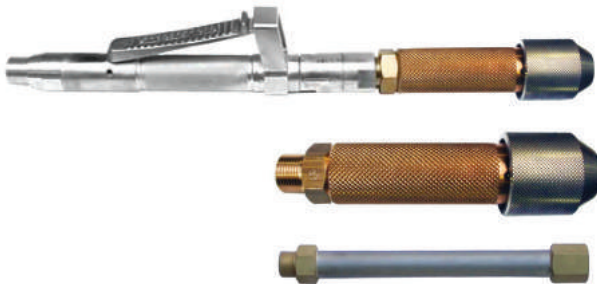
BLOWING LANCES

Carbon and Oxygen Lances

Mod. SL/82

Mandrel for Oxygen Lances

- Lance holder with turnable stainless steel head
- Ball bearing inside
- Steel Chuck and Neoprene seals
- Body in brass58
- Working pressure up to 40 Bar
- Lance size from 6 mm up to 1"
- Safety extention tube 400 / 600 mm or upon request



SL/82	P.n.	Lance	Conne.	Lenght /mm
	93300M	6 mm	3/4"	
	93310M	8 mm	3/4"	
	93320M	1/8"	3/4"	
	93330M	1/4"	3/4"	
	93340M	3/8"	3/4"	
	93360M	1/2"	3/4"	
	93350M	3/4"	1"	
	93370M	1"	1" 1/4"	
	93370MS	==	1" 1/2"	
	933SE400-01	==	3/4"	400 mm.
	933SE600-01	==	3/4"	600 mm.
	933SE400-02	==	1"	400 mm.
	933SE600-02	==	1"	600 mm.
	933SE600-03	==	1" 1/4"	600 mm.
933SE600-03S	==	1" 1/2"	600 mm.	
933SE400-03	==	1" 1/2"	400 mm.	

Mod. SL/O2

Mandrel for Oxygen Blowing

- Lance holder with turnable stainless steel head
- Ball bearing inside
- Steel Chuck and Neoprene seals
- Body in brass58
- Working pressure up to 40 Bar
- Lance size from 1/2" mm up to 2"
- Safety extention tube upon request



SL/O2	P.n.	Lance	Conne.	Lenght /mm
	93360MO	1/2"	3/4"	
	93350MO	3/4"	1"	
	93370MO	1"	1" 1/4"	
	93370MSO	1"	1" 1/2"	
	93380MO	1" 1/4"	1" 1/2"	
	93390MO	1" 1/2"	2"	
	93395MO	2"	2" 1/2"	
	933SE600-03	==	1" 1/4"	600 mm.
	933SE600-03S	==	1" 1/2"	600 mm.
	933SE1000-03	==	1" 1/4"	1000 mm.
	933SE600-04	==	2"	600 mm.
	933SE1000-04	==	2"	1000 mm.
	933SE600-05	==	2" 1/2"	600 mm.
	933SE1000-05	==	2" 1/2"	1000 mm.



BLOWING LANCES

Carbon and Oxygen Lances

Mod. SL/T

Oxygen Lances

Standard: L. 3000 mm— both threaded ends

Upon request L. 6000 mm

Upon request senza filetto

Lance ossigeno non Animate (cod. NA)

Start: igniter for lances 3/8" - 1/2" - 3/4"



SL/T	P.n.	Lance	Lenght /mm
	93540	3/8"	3000
	93550	1/2"	
	93560	3/4"	
	93540L	3/8"	6000
	93550L	1/2"	
	93560L	3/4"	
	93540NA	3/8"	3000
	93550NA	1/2"	
	93560NA	3/4"	
	93540NAL	3/8"	6000
	93550NAL	1/2"	
	93560NAL	3/4"	
	93540-S	3/8"	START
	93550-S	1/2"	START
93560-S	3/4"	START	

Mod. TOV/SL

Special Oxygen Hose

NEOPRENE+External Fiberglass braid

Connection A up to ND 19

Connection B from ND 19 up tp ND 50

Brass standard Connection

Stainless Steel connection -optional

Anti-flex spring

Working pressure up to 40 Bar

Lenght to be defined:

Sample: 13 mt. Lenght P/N 93600FV/82-13

TOV/SL	P.n.	Lance	ND	Lenght	Conne.
	93600FV/82	1/4"	10	10 - 40	3/4"
	93610FV/82	3/8" - 1/2"	13		1"
	93620FV/82	1/2" - 1/4"	19		1" 1/4
	93630FV/82R	1"	25	10 - 25	1" 1/2
	93630FV/82				1" 1/4
	93632FV/82R	1" 1/4	32		1" 1/2
	93632FV/82				2"
	93635FV/82	1" 1/2	40		2" 1/2
	93637FV/82	2"	50		





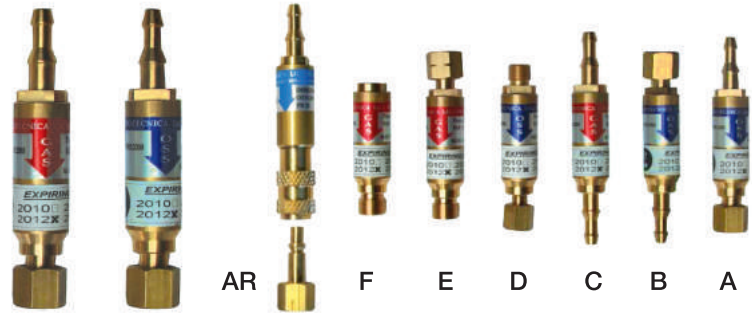
I Safety Valves

Mod. SL/FE

Valve with 3 safety levels:

- 1- flash back distribution on the filter
- 2- sintered filter
- 3- non return system

Style R: with quick connection
Style U: one way valve



SL/FE	P.n.				Connec.	Press. Max Bar	Size
Oxygen	92000	A B	R	U	1/4"	15	20
	92010				3/8"		
	92020				1/4"		30
	92030				3/8"		
Gas	92050	D E F	R	U	1/4" LH	10	20
	92060				3/8" LH		
	92070				1/4" LH		30
	92080				3/8" LH		

Special manufacturing on request Part number Identification sample : 92030AR

SL/FE "C"	P.n.	Connec.	Press. Max Bar	Size Nmc/h
Oxygen	92100	20	15	10
	92110	30		15
Gas	92120	20	10	3
	92130	30		4,5

Special manufacturing on request

Mod. SL/VT

Safety Valve SL/VT

To be mounted behind the lance holder SL/82 or net
Valve with 2 safety levels:
1. Unidirectional and thermal valve
2. Non return valve
Working pressure up to 40 Bar



P.n.	Lance	Connec.	Lenght mm
933VT-02	1/2"	3/4"	
933VT-03	3/4"	1"	
933VT-01R	1"	1" 1/4	
933VT-01	1"	1" 1/2	
933VT-04	1" 1/2	2"	
933VT-05	= =	2" 1/2	

I Safety Valves

Mod. SL/100

Safety valve for gas nets 25 /50

Safety valves for high flow / usually installed on oxygen and gas' nets

The valve has over pressure system (discharge)

Valve with 3 safety levels:

- 1- flash back distribution on the filter
- 2- sintered filter
- 3- non return system

The standard material is brass58

Upon request we could supply in stainless steel

Connections with double flanges

SL/100	P.n.	Connec.	Press. Max Bar	Flow Nmc/h
Oxygen	92400	DN 25	25	400 ÷ 800
	92402	DN 32		
	92405	DN 40		
	92410	DN 50		
Gas	92420	DN 25	15	200 ÷ 400
	92422	DN 32		
	92425	DN 40		
	92430	DN 25		
Part number Identification sample : 92425				
Special manufacturing on request				

Mod. SL/SG

Pressure regulator ND 20

Regulator installed on main fluid control and regulation panel of cutt. / heat. machine

Two gauges

Inlet filter

Overpressure relief valve

Brass body

Connection 3/4"

Repair kit: cod. 91850K



Mod. SL/SP

Pressure regulator ND 12

Regulator installed on main fluid control and regulation panel of cutt. / heat. machine

Two gauges

Inlet filter

Overpressure relief valve

Brass body

Connection 1/2"

Repair kit: cod. 91800K





I Safety Valves

Mod. SL/12

Valve with 3 safety levels:

- 1- flash back distribution on the filter
- 2- sintered filter
- 3- non return system

Style U: one way valve



SL/12	code	connection	sigle way	Connec.	Press. Max Bar	Flow Nmc/h
Oxygen	92250C10	C		DN 10-10	25	100
	92250C13			DN 13-13		
	92250	D / E / F / G		3/8"		
	92260			1/2"		
	92265			3/4"		
Gas	92270C10	C	U	DN 10-10	15	50
	92270C13			DN 13-13		
	92270	D / E / F / G		3/8" LH		
	92280			1/2" LH		
	92285			3/4" LH		

Mod. SL/40

Valve with 3 safety levels:

- 1- flash back distribution on the filter
- 2- sintered filter
- 3- non return system

For torch:

Style D: with male inlet / female outlet

Style U: unidirectional valve for cutting oxygen



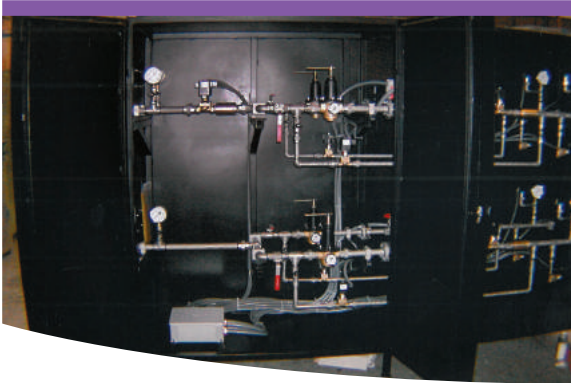
SL/40	code	connection	sigle way	Connec.	Press. Max Bar	Flow Nmc/h
Oxygen	92350	D	U	3/4"	25	400
	92360			1"		
	92390			1"-1/4 LH		
Gas	92370	E	U	3/4" LH	15	200
	92380			1" LH		
	92395			1"-1/4 LH		

Special manufacturing on request

Part number Identification sample : 92330D



I ACCESSORIES



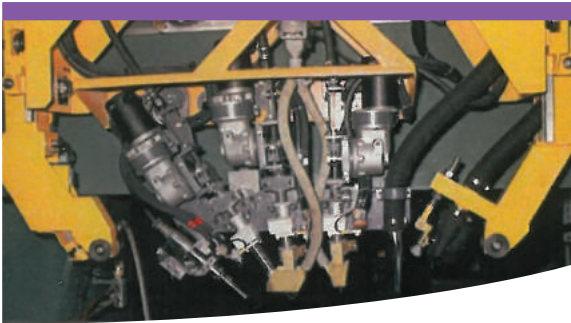
I Ladle Furnace

Argon / Nitrogen / Oxygen Blowing station

Main fluids control and regulation panel

Standard lances

Special Lances on Customer dwg.

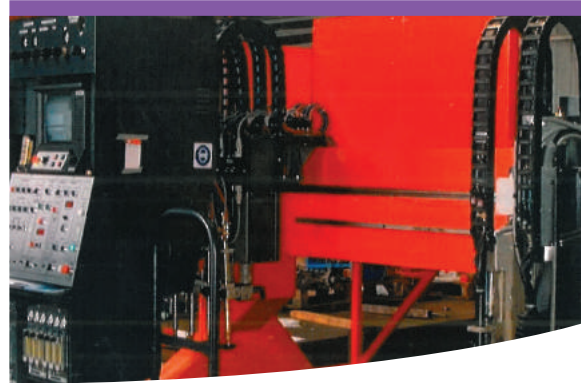


I Shipyard

Plasma cutting machine as dry as under water.
Endless cutting head for welding preparation
Cutting table as for dry as for under water cutting
Filter for dedusting and exHasting System for plate alignment

T profile welding machine

One-side welding machine



I Rolling Mill

Head / Tail / Edges plates Plasma Cutting machine
AUTO working Cycle and Link to Customer production software for DATA Exchange.

Dry and under water cutting tables

Filter for de-dusting and exhausting System for plate alignment System for scrap cutting



I Construction / Forge Shop

CNC profiling cutting machine by plasma and oxyfuel

Oxyfuel Thickness:
CNC up to 1500 mm.
Ortogonal up to 2000 mm.

Cutting table and filters

Special application:
Marking
Drilling
Ingot Hot cutting