



SOITAAB IMPIANTI

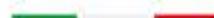
## PRODUCT OVERVIEW

PLASMA | WATERJET | FLAME | LASER

[soitaab.com](http://soitaab.com)



Cutting at the highest levels





**SOITAAB IMPIANTI**  
HEAD QUARTIER | Carugate | Italy

The quality of a GROUP is valued in the EFFICIENCY of its production processes, in the INNOVATION of its technological infrastructure and especially in the professional and moral QUALITY of its STAFF.

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Stefano Riva  
Owner & CEO



Chiara Santoli  
Owner & CEO

Since their founding in 1938, Soitaab has become a recognized leader in the international cutting machine market with more than 8,000 machine installations worldwide. Soitaab has always maintained a leading position in cutting technology, all supported by world class service and training.

With today's demanding markets, Soitaab continues to push development in plasma, oxyfuel, fiber laser, water jet cutting and band saw.

Through Soitaab's recent opening of their 17.000m2 manufacturing center in Milan, Italy, they have combined their long held traditions for excellence with state of the art technology development, rugged reliability, creativity, and quality manufacturing.

Soitaab has become the premier provider for sheet metal cutting and processing equipment.

With their ISO 9001-2008 certification, Soitaab has aligned with other worldclass industrial and technology partners to provide the most advanced solutions, the best customer care, the highest quality products and continuous improvement in their entire production chain.

Today, Soitaab is expanding their presence in the North American market with the opening of their new U.S. Headquarters in Chicago, IL.

## Innovation and tradition

Soitaab's success can be directly attributed to their long-standing customer first philosophy. With many years of various technology experience, Soitaab exceeds customer requirements for efficiency, quality, and accuracy in their cutting equipment.

Plasma, flame, waterjet, laser and bandsaw machine production lines work in perfect harmony and interaction.



### PLASMATECH

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The PlasmaTech family offers a complete range of automatic CNC controlled plasma cutting machines. The plasma process allows machines to reach very high temperatures and cut almost all conductive materials (Stainless steel, Aluminium, Iron, etc.).

**The PLASMATECH family is divided into Three machine lines: PRO, RED and NOVA.**



### LINEATECH

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The LINEATECH contains our range of automatic cutting machines purely with oxyfuel processes and/or combined with cutting or machining technology. LINEATECH is the well-known, established technological evolution of our Soitaab CNC cutting machine par excellence, the Lineacord.

**The LINEATECH family is divided into three machine lines: PRO, RED and NOVA.**

**SOITAAB** designs and builds machines, inspired by a precise methodology of technological classification. The **PRO**, **RED**, and **NOVA** options within our product ranges are the ideal solution to meet the different needs of small, medium, and large Companies.



## WATERTECH

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The WATERTECH family contains includes machines that rely on the nonthermal cutting technology of Water Jet. A unique solution for handling molded pieces with complex geometries, in both ferrous and non-ferrous materials. Light gauge up to significant thicknesses.

**The WATERTECH family is divided into three machine lines: PRO, RED and NOVA**



## LASERTECH

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Our new range of fibre laser technology machines: versatile, powerful, precise, flexible and high performance. High productivity and reliability on all types of materials and thicknesses. Cutting quality at the highest category levels and simple, complete functionality at the same time, thanks to parameterised CNC and an efficient and intuitive interface.

**Fiberline S offers a wide operating range while ensuring high dynamics.**



The PLASMATECH family contains the automatic plasma cutting machine range. The plasma process, applicable on all conductive materials (Carbon Steel, Stainless Steel, Aluminium, etc.) achieves high quality performance.

Versatile, technologically advanced and robust Plasmatech machines are designed to accommodate different cutting technologies.

**The PLASMATECH family is divided into three machine lines: PRO, RED and NOVA.**

**PLASMAPRO**  
SIMPLICITY NEEDS PERFECTION

**PLASMA RED**  
PRECISION & RELIABILITY

**PLASMANOVA**  
FULLY EQUIPPED VERSATILITY





Caratteristiche tecniche

Working Area	1500 x 3000 mm - (5 x 10 ft) 2000 x 4000 mm - (6.5 x 13 ft)
Plasma Generators	from 45 to 125 A
Travel speed	20.000 m/min - (60 ft/min)
Machine Dimensions	2132 x 4329 mm - (6.5 x 14.1 ft) 2460 x 5325 mm - (8 x 17.5 ft)
CNC, Motors and Drives	15" Windows Touch, Brushless Digital, powered by Schneider Electric
Cutting Thicknesses	Up to 20 mm - (5.08 inch)
Marking system	with pen
Cutting table available	down draft or water

## Plasma PRO

The plug&play version of the Plasmatech family.

Plasma PRO is the plug&play version of the Plasmatech family. Versatile and economical, it represents the cutting solution for many applications.

Compact and sturdy design. Designed to achieve high performances with the latest electronic solution and control.

### MAIN FEATURES

AVC, Anti-collision, Anti- UVA, Laser Diode, Ohmic sensor, Touch and Go ideal for initial positioning on both thin and medium thickness sheets.

- Dual drive brushless motors
- Inspection panels
- Rear generator housing
- Compact and rational design

POWERMAX GENERATORS: PWM 45 - PWM 65 PWM 85 - PWM 105 - PWM 125 - MAX PRO 200



The best adding value plasma solution available on the market.



The highest “plug and play” plasma quality solution. Easy-to-use and learning, you can instantly achieve full operation.

Designed for cutting ferrous, steel, and aluminum materials in both thin to medium thicknesses and variety of plate sizes with dimensions up to 2.5 m wide and 12 m long, Plasma RED is employed in steel fabrication and in the HVAC manufacturing markets.

The H.M.I Interface - (Soitaab Human Machine Interface) has been especially developed for the RED model, Touch screen monitor with intuitive, user friendly, and self learning CNC control for all operations. Positioning accuracy is guaranteed by the rigid welded gantry, dual brushless longitudinal motorizations with gantry axial control, rectified Linear guide ways with rack & pinion coupling, independent Gantry from (but integrated with) the separate cutting table from the guiding structure of the machine.

Special care has been dedicated to protecting all guides and compliance with safety standards, making Red Plasma a safe and reliable machine. Plasma RED is suitable for high XD plasma definition cutting.

Plasma available up to 300 Amperes.

HIGH DEFINITION GENERATORS:  
HPR 130 XD - HPR 260 XD - XPR 300

Technical features

Working Area	from 1,5 x 3 to 2,5 x 12
Z axis vertical stroke	100 mm
Motorizations (x,y,z)	Brushless
Drivers (x,y,z)	Digital
Travel speed	40 m/min
Ripetibility	+ - 0,05 mm/m
CNC control	Soitaab CNC
Screen	15" Touch Panel
Data Communication	USB - Ethernet - LAN
Cutting Technology	HPR XD, XPR or similar





Technical features

Working Area	from 1,5 x 3 to 3 x14
Z axis vertical stroke	up to 300 mm
Motorizations (x,y,z)	Brushless
Drivers (x,y,z)	Digital
Travel speed	70 m/min
Ripetibility	+ - 0,05 mm/m
CNC control	Soitaab CNC
Screen	15" Touch Panel
Data Communication	USB - Ethernet - LAN
Cutting Technology	HPR XD, XPR or similar

**Plasma NOVA** integrates multiple technologies and features to meet the most complex production requirements.

In a single set-up, this machine can complete many complex operations for plasma and oxyfuel cutting, drilling, tapping, bevel cutting, pipe cutting, marking, and automatic material handling to optimize the production cycle.

The Plasma NOVA is designed to cut ferrous, stainless steel and aluminum materials in medium to high thicknesses. Dual brushless drives provide high accuracy gantry positioning.

The linear guide ways and a helical rack and pinion are mounted with downward facing teeth, protecting them from slag deposits and dust.

All guide ways are protected and the machine meets all CE safety regulations, making the Plasma NOVA possibly the safest machine ever made.





The Soitaab WaterTech line combines many years of experience in the design and manufacturing of water jet cutting technology with the constant innovation of a competitive international market.

Through careful design and the selection of the highest quality components, Soitaab's WaterTech technology is widely used in a variety of market segments to take advantage of the precision and versatility of the water jet cutting process. Special attention is paid to the total protection of all of the system's mechanical components. Because of this advanced protection, the machine can perform flawlessly in extremely hostile environments and working conditions.

**WATERPROJ**  
SIMPLICITY NEEDS PERFECTION

**WATERRELIJ**  
PRECISION & RELIABILITY

**WATERNOVA**  
FULLY EQUIPPED VERSATILITY

## DUALINE technology: Plasma & Waterjet in perfect harmony

Soitaab's Dualine machine combines plasma and water Jet technologies in order to obtain the high productivity of plasma and the high quality of water jet in any cutting combination. The high cutting speed of plasma combined with the high precision and versatility of water Jet cutting allows customers to optimize time, quality, and production costs on the same work piece. The Dualine can combine both cut processes on the same piece or it can be used as solely a water jet or solely a plasma cutting machine essentially yielding two machines in one, with all of their respective advantages. Dualine is the clear answer to a dynamic market that is always searching for the best cutting solution at the lowest cost and highest quality level. Dualine is also available in versions with two portals on a single working basin and can include a wide range of accessories. Available with Hypertherm plasma generators and Hypertherm and KMT pumps.



**DUALINE**  
WATERJET MEETS PLASMA



### Technical features

- Portal Structure or Flying Bridge
- Integrated tank
- Table made with Grids or Plate Supports
- Rack and Pinion coupling
- Brushless motorization
- Travel speed 10 m/min
- Positioning accuracy  $\pm 0.1$  mm/m
- Easy machine access from 3 sides (Flying Bridge)
- Height Control Device
- Dedicated CAD/CAM with 2D technological parameters
- 200 kg Hopper and MiniHopper for minimal abrasive distribution to the head
- 4137 bar, High pressure pump
- High pressure pump available 30HP – 50HP – 60 HP

**Water PRO** is a compact solution either with Gantry portal or flying bridge structure and integrated steel tank.

The Soitaab “plug and play” waterjet solution meets the requirements of practicality, and simplicity of use.

Cutting efficiency and quality are however guaranteed by the high standards of design and construction.

Water PRO can be combined with pumps with different powers and a choice of different available work areas, making this a versatile and productive solution.

Available work areas::

- 1000 x 1000
- 1000 x 2000
- 1500 x 3000
- 1500 x 4000



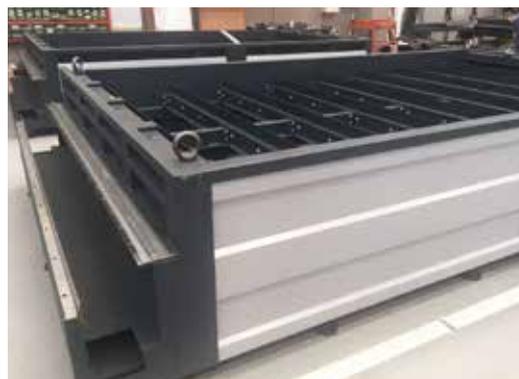
**Water RED** is the highly versatile and high precision cutting solution.

- 6000 bar (60hp or 125hp) intensifier pump
- Powers 30hp 50hp 60hp 75hp 100hp 150hp at 4000 bar
- Dual longitudinal drive with brushless motors and gantry axial control
- Rack and pinion drive system
- Rectified Linear guides on the longitudinal axis
- Dual guide system on the transversal axis
- Dual stage pressurised abrasive dosing system
- Self lubrication system for all guides
- Bellows protection on all axis: longitudinal and beam for maximum protection
- Stainless steel water and abrasive tank
- Manual water level control system built into the tank
- Ready for future installation of an abrasive removal system
- Sludge evacuation system (option)
- Cutting technology table with quality from 1 to 5



Technical features

Working Area	from 1,5 x 3 to 3 x 6
Motorizations (x,y,z)	Brushless
Drivers (x,y,z)	Digital
Travel speed	40 m/min
Positioning accuracy	+ - 0,1 mm
Ripetibility	+ - 0,05 mm
CNC Control	Soitaab CNC
Screen	15" Touch Panel
Data Communication	USB - Ethernet - LAN
Cutting technology	Abrasive WaterJet and Plasma
Z axis vertical stroke	200 mm (optional 300 mm)





### Technical features

- Independent Portal Structure
- Separated cutting tank
- Tavolo a stecche o griglie
- Table made with Grids or Plate Supports
- Rack and Pinion coupling with helical theet
- Dual drive brushless motors and gantry control
- Travel speed 40 m/min
- Positioning accuracy  $\pm 0.1$  mm/m
- Ripetibility  $\pm 0.05$  mm/m
- Vertical 3 Axis and 5 Axis bevel head
- + - 60 ° Angle
- Remoted CNC Control
- Dedicated CAD/CAM with 2D and 3D technological parameters
- 4137 bar and 6000 bar, High pressure pump
- High pressure pump available  
30HP 50HP 60 HP 75 HP 100 HP 125 HP 150 HP

**Water NOVA** is the most advanced and complete solution for water jet cutting.

The technologically advanced Water NOVA solution meets the highest productivity, versatility and efficiency demands.

The independent portal structure and the separate tank give the machine unique solidity and precision characteristics, making it possible to achieve high cutting performance in all environmental conditions.

The advanced parameterised CAD/CAM software combined with the intuitive and ease to use CNC HMI, allow the operator to achieve high production standards and optimised working cycles.

#### Work area:

- 1700 x 4000 structure with long side bridge
- 2000 x 4000 structure with short side brifge
- 2000 x 6000
- 2500 x 6000
- 3000 x 6000
- 2000 x 8000
- 2500 x 8000
- 3000 x 8000
- 2000 x 12000
- 2500 x 12000
- 3000 x 12000



## LINEATECH /



The LineaTech family offers a full range of automatic cutting machines from simple oxyfuel processes and/or combined with another cutting process such as plasma to complex machining or mechanical processing such as drilling or threading heads.

Thanks to a simple industrial PC and an network card for data transmission, Soitaab electronics allow a real-time control and management of the machine. The benefits are clear: compactness, reduced use of electronic components, simplicity and reliability.

The LINEATECH family is based on a concept of modularity and the possibility of future extensions with extreme ease.

**The LINEATECH family is divided into three machine lines: PRO, RED and NOVA.**

**LINEA PRO**  
SIMPLICITY NEEDS PERFECTION

**LINEA RED**  
PRECISION & RELIABILITY

**LINEA NOVA**  
FULLY EQUIPPED VERSATILITY





Technical features

Rail span (min-max)	2.000 mm - 4.000 mm
Machine lenght	2.000 mm
Useful machine lenght with 4 meter rails	2.000 mm
Longitudinal Rails HEB-STD	120 mm
Beam Structure	Single
Transversal guides	Cylindrical bar
Racks	Vertical theet
Longitudinal motorization	Dual drive brushless and gantry control
Travel speed	24 m/min
Quality standard	ISO 9013 e EN DIN 28 206
Parametrical figures	STD 30 (option up to 78)
Maximum cutting thickness (oxy)	150 mm
Gases	Oxygen, propane, methan, acetylen
Plasma Cutting technology	HPR, XPR or similar

**Linea PRO** is the cost-effective plasma and oxy-fuel cutting alternative for ease of use, simplicity, and cut quality.

Designed to meet the requirements of quality and cost-effectiveness of thermal cutting, Linea PRO offers a variety of applications such as flame cutting, plasma cutting and marking.

Linea PRO can be equipped with up to 4 flame cutting carriages and a plasma carriage with useful cutting width up to 3,000 mm and a distance up to 4.000 mm between the rails.

Automatic gas management database controlled by the CNC

Linea PRO has the structure and mechanics suitable for the application of the most sophisticated high-definition cutting systems with optimum parameter management for best cutting results even on elaborate contour shapes and small diameter holes.

The CNC can be enriched with a database for automatic management of cutting parameters.

Library of 30 fixed parameter figures can be extended up to 78 figures (as an option)

Plasma available up to 400 Amperes.





**Linea RED** offers various applications such as flame cutting, plasma cutting, marking and mechanical pre-drilling.

Equipped with a dual beam structure, dual longitudinal drive with Brushless motors and digital drives. The systems movement is achieved by mating rack and pinion and floating device with a preloaded spring to assure high accuracy positioning with minimum backlash.

It can be equipped with up to 6 flame cutting carriages and 2 plasma stations. Rail span up to 5.500 mm and can cover a useful cutting width of up to 4.500 mm.

Automatic oxyfuel gas distribution via 3 fully proportional valves dedicated to the single carriage controlled by CNC.

Optional high-definition plasma cutting with automatic gas control make LineaTech RED ideal for cutting complicated shapes, holes of small diameters, slots, and fine details

The Soitaab CNC, equipped with a database for automatic cutting parameter management and a library of up to 78 fixed parameter figures, makes this a very high performance machine.

Technical features

Rail span (min-max)	3.000 mm - 5.500 mm
Machine lenght	2.000 mm
Useful machine lenght with 4 meter rails	2.000 mm
Longitudinal Rails HEB-STD	120 mm
Beam Structure	Double
Transversal guides	Linear guides
Racks	Vertical Theet
Longitudinal motorization	Dual drive brushless and gantry control
Travel speed	24 m/min
Quality standard	ISO 9013 e EN DIN 28 206
Parametrical figures	STD 30 (option up to 78)
Maximum cutting thickness (oxy)	250 mm
Plasma	up to 400 amp
Drilling head	pre-hole ISO 30
Pipe cutting diameter	from 76 to 500 mm (3"-20")





**Linea NOVA** is designed with a concept of modularity that makes the machine versatile and complete for excellent results.

Technical features

Rail span (min-max)	4.000 mm - 12.000 mm, higher optional
Machine lenght	2.000 mm
Useful machine lenght with 4 meter rails	2.000 mm
Longitudinal Rails HEB-STD	180 mm, higher on request
Beam Structure	Double
Transversal guides	Linear guides
Racks	Helical Theet
Longitudinal motorization	Dual drive brushless and gantry control
Travel speed	24 m/min
Quality standard	ISO 9013 e EN DIN 28 206
Parametrical figures	STD 30 (option up to 78)
Maximum cutting thickness (oxy)	300 mm
Plasma	up to 800 amp
Drilling head	pre-hole ISO 30, ISO 40 with internal cooling (diam 35 - M20), ISO 50 internal cooling (diam 50-M27)
Pipe cutting diameter	from 76 to 800 mm (3"-31 1/2")

LineaTech NOVA offers the widest range of solutions for plasma cutting, oxyfuel, drilling, tapping, and marking.

The rigid double beam construction completely protects all linear guides and moving parts

It can be equipped with multiple heads for bevel cutting both with plasma and flame cutting, for drilling and tapping up to ISO50, tool changing device and various types of markers. The movement is achieved by means of helical teeth pinion and rack coupling and a clearance recovery device with pre-loading spring.

LineaTech NOVA has dual-side drives with brushless motors and digital drives in an absolute coordinate system, or rather they keep the machine position in their memory even when it is turned off.

Linea NOVA covers a cutting width of up to 8,000 mm and length up to 40.000 mm. The oxyfuel cutting torches are available with automatic ignition and internal or external capacitive sensors for automatic height control.

The cutting parameter database developed by Soitaab ensures high cutting quality on cut pieces and accurate holes. SOITAAB CNC numerical control is equipped with a library of 78 fixed parameter figures.

Plasma generators available up to 800 Amperes.





**New for 2017.**  
Fiberline S, last generation  
fiber laser.

Soitaab new range of fiber laser technology machines is: versatile, powerful, precise, flexible and with high performances.

High productivity and reliability on all types of materials and thicknesses.

Cutting quality at the highest category levels and simple, complete functionality at the same time, thanks to parameterised CNC and an efficient and intuitive interface.

Fiberline S offers a wide operating range while ensuring high dynamics.



#### Caratteristiche tecniche

Working area	X = from 4.000 to 12.000 mm Y = 2.000 , 2.400, 3.000 mm Z = 115 mm
Max speed	220 m/min
Acceleration	1 g Y 3.000 1,3 g Y 2500 1,7 g Y 2.000
Accuracy	Position deviation Pa = 0,05 mm Average position scatter Ps = 0,03 mm
Power	2,3,4,5,6 KW
Cutting thicknesses	Carbon steel: from 1 to 30 mm Stainless steel: from 1 to 25 mm Aluminum: from 1 to 25 mm Copper: from 1 to 12 mm Brass: from 1 to 12 mm

**Soitaab technologies:** versatility, efficiency and innovation in the widest range of products on the market.



Nuovo 5 assi Watertech Compact

## Special technologies and accessories

Soitaab studies and develops special cutting technologies with a full range of special accessories. The ability to integrate these technologies into a single machine guarantees great flexibility and high performance in all working conditions.



Full range of dedicated accessories.



- 1. 5 PLASMA AXES
- 2. 5 WATERJET AXES
- 3. STAR-SHAPED DRILLING HEAD
- 4. 3 WATERJET AXES WITH SENSOR
- 5. MULTIPLE PLASMA HEADS
- 6. PLASMA AND FLAME CUTTING

- 7. PLASMA TUBOTECH
- 8. MAGNETIC ANTI-COLLISION
- 9. MARKING SYSTEMS
- 10. CUTTING AND DRILLING
- 11. MANDREL TUBOTECH
- 12. PRE-DRILLED HEAD

**Soitaab CNC:** total interconnection for an integrated production process.

## Software and control

All SOITAAB machines are equipped with a highly evolved CNC control that is equally flexible and easy to use.

SOITAAB automation must respond adequately to the needs of big industry, while allowing small and medium-sized businesses to enjoy the same know-how.

Maximum integration with CAD CAM to import and develop of all types of nesting, ensuring high efficiency and operating management.

Interfacing with customer's software CAD/CAM and production management plans, as part of a full monitored and interconnected process, meets the technical requirements for INDUSTRIA 4.0.

SOITAAB machines are therefore instruments that can perform complex operations with maximum precision, even in presence of different cutting technologies and multiple machining demand.



## Pumps and generators

Soitaab machines are equipped with plasma generators and high pressure Hypertherm and Kmt waterjet pumps.

The wide range of models and versions available users you to configure the cutting plant to meet specific customer needs, always delivering maximum performance and productivity.

### PLASMA GENERATORS

- XPR 300
- HPR130XD
- HPR260XD
- HPR400XD
- HPR800XD
- MAXPRO200
- POWERMAX45
- POWERMAX65
- POWERMAX85
- POWERMAX105
- POWERMAX125

### POMPE WATERJET

- HyPrecision Waterjet
- KMT Streamline



As a leader in the design and manufacture of band saw machines, we have over 60 years of experience in the development of cutting technologies for steel and aluminium.

Always synonymous with high technology, efficiency and reliability, our band saw cutting solutions have been designed for specific applications in synergy with our customers, in order to meet all individual needs and achieve low cost cutting combined with high performance.

Our products are constantly found alongside leading worldwide cutting service centres and are constantly updated with the best cutting technologies available.

Knowledge of the market and the specific needs of our customers are the basis for the technological development of our cutting solutions. All our innovative solutions are the result of decades of field experience and testing.

**Learn more on [www.friggi.com](http://www.friggi.com)**





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