

SIDEROS[®]

 **ENGINEERING**



DUST COLLECTORS
FOR CUTTING AND WELDING



DOWNDRAFT TABLES AND AUTOMATION
FOR WELDING AND ASSEMBLY



STORAGE SYSTEMS
FOR SHEET METAL, TUBES AND BARS



3 AXIS WELDING POSITIONERS
FOR WELDING AND ASSEMBLY



HEAD AND TAILSTOCK POSITIONERS
FOR WELDING AND ASSEMBLY



STRAIGHTENING PRESSES
FOR STEEL PLATES



DEBURRING TUMBLERS
FOR OXY AND PLASMA

AROUND THE STEEL PLATE

SIDEROS ENGINEERING has been operating for over 35 years worldwide in the field of machinery for sheet metal manufacturing, and owes its success particularly to the high quality of its own products and to its constant commitment to the development, creation and industrialization of new projects.

Founded in 1981, it has a peculiarity: the possibility of testing all new prototypes and the new technologies developed, during a period of at least one year at BELLONI LAMIERE, a firm operating since 1958 on the Italian market and belonging to the same Industrial Group; this combination enables SIDEROS ENGINEERING to constantly monitor the plants installed, thus allowing the optimization of products before their launch on the market and their subsequent industrialization.

It is important to emphasize that Sideros Engineering is the only firm in the world able to propose a wide range of plants complementary to sheet metal cutting machines.

This feature enables our customers to make use of a concept of integrated design as well as of a construction that follows a common philosophy, the values of which are efficiency, safety, cost-performance and long life.



 **made
in
Italy**



BELLONI LAMIERE, founded by Vincenzo Belloni in 1958, has been among the first firms in Italy supplying high quality oxy-fuel cut pieces. Today, after over "half a century" is among the few firms in Italy that can be proud of such a long presence and experience in metal plates processing industry.

The quality of the products supplied, the accurate inspections during processing steps and delivery punctuality make BELLONI LAMIERE a reliable benchmark at national level.

Over the years they have more and more specialized in the following processes:

- Oxy-fuel cutting: metal plates of several thicknesses are cut by means of high performance cutting machines
- Straightening: the plant is equipped with 3 Hydraulic Presses with movable vertical rods, movable cylinders and rotating hubs
- Milling: it is performed by means of CNC control machines on work-pieces having a length up to 12 mt.
- Sandblasting, deburring, heat treatments and machining



Today BELLONI LAMIERE has become the main Test Center of Sideros Engineering. Every year, Sideros tests and develops dozens of new products and technologies directly on-site. This great experience has let Sideros be able to design and manufacture reliable and technological advanced products over the past 30 years.

www.bellonilamiere.com

LOTUS

LOTUS was founded in 1980 and has soon specialized in aluminium and stainless steel processing.

The products manufactured by Lotus are distributed and appreciated all over Europe thanks to their high quality standard.

Production includes:

- Aluminium alloy loading ramps
- Aluminium and stainless steel walkways and stairs
- Aluminium electrowelded structures



www.lotusalluminio.com

GLOBAL HOME

GLOBAL HOME has specialized in the last years in the designing and manufacturing of plants for:

- Air treatment and filtration (heating and conditioning).
- Building automation
- Conception and manufacture of lighting systems
- Designs to manufacture active and passive safety systems
- Heat and sound insulation

The added value offered by Global Home to the market is to be the only contact at customer's service.



www.globalhomesrl.com



Since the '70s, the steel service center **Belloni Lamiere**, part of the Sideros Engineering industrial group, has tested and been using the first down draft tables produced and developed by Sideros Engineering.

Over the decades, Sideros Engineering down draft tables have been further **optimized**, automatized, and therefore produced on industrial scale for being more competitive on the local and the export market.

Today, Sideros Engineering exports to more than 52 countries worldwide.

Sideros Engineering down draft tables feature a **solid frame**, able to support heavy-duty metal plates mainly used in applications such as oxy-fuel cutting.

Modularly designed, Sideros down draft tables are provided with an integrated suction system equipped with either one or more suction channels, depending on cutting width and application, in order to ensure the **highest performances**.

Sideros Engineering offers **76 down draft tables configurations**, all industrialized and continuously monitored at Customers locations in order to receive constant performance feedback.





STANDARD MODELS

ORION TABLE	Simple and sturdy, it ensures good suction either for plasma and oxy-fuel applications
SUPER ORION TABLE	Reinforced and heavy duty version of the Orion table. Mainly designed for Oxy-fuel cutting
SIRIUS TABLE	It ensures excellent suction on either straight and bevel torch plasma cutting
SIRION TABLE	Sirius' design and performance features, for smaller plate formats
POLARIS TABLE	Specifically designed for heavy oxy-fuel, to support high temperature and thick metal plates
LASER TAB	High performances for Co ₂ and Fiber laser cutting machines

AUTOMATIC MODELS

RAPID CLEAN	Automatic system for the extraction of slag and scraps produced during cutting processes
SPRINTER	Automatic system for pallet changing in plasma and Co ₂ and Fiber laser cutting machines
SYNCROMATIC	Automatic movable suction trolley for slag collection and fume extraction
ACQUAMATIC	Conceived to be integrated into underwater arc plasma cutting machines

SLATS AND SUPPORTING FRAMES

All down draft tables are provided with removable supporting frames endowed with cutting slats; these are transversally placed with regard to cutting direction.

TYPES:

- parallel
- fish-bone
- serpentine
- grid
- with cast iron cones
- saw-tooth
- copper or steel made

DIMENSIONS:

- mm 50 x 3 pitch 50 mm
- mm 100 x 6 pitch 100 mm
- mm 150 x 8 pitch 200 mm
- mm 150 x 12 pitch 200 mm
- mm 200 x 10 pitch 200 mm



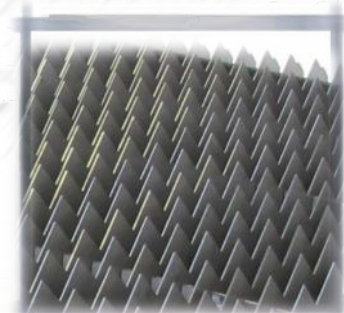
WITH CAST IRON CONES



IN COPPER, SERPENTINE



PARALLEL



SAW-TOOTH

AUTOMATIC SLAG REMOVAL SYSTEM

Perfectly integrated in ORION and POLARIS downdraft tables, Rapidclean has been conceived to be installed in order to replace the old slag containers and enables the **automatic extraction** of slag produced during cutting operations.

ADVANTAGES

- Automatic extraction of slag during sheet metal plate cutting
- It avoids expensive machine downtimes to remove and empty the collection tanks, thus increasing safety
- Emptying of only one slag container with high collection capacity
- Abatement of maintenance costs
- Suitable for heavy applications too and on several work shifts
- SMOKE FREE table
- Suitable for Plasma, Laser and Oxy-fuel applications
- Single or double RAPIDCLEAN available according to table width



SYNCROMATIC

The latest born in the family of SYNCROMATIC downdraft tables. It is a **revolutionary suction system** provided with movable shuttle on wheels, which carries out fumes and dust suction as well as cutting-slag collection at the same time. These operations occur automatically by means of their **synchronization with the cutting machine**.

SYNCROMATIC is a simple, sturdy and efficient plant.

ADVANTAGES

- Very high suction efficiency
- Slag collection in only one tank
- Very short slag emptying times
- Perfect integration into the cutting machine
- The total absence of wear parts (cylinders, valves and pneumatic pipes) decrease drastically any type of plant downtime caused by maintenance interventions
- Integrable with any kind of cutting technology (Plasma, Laser and Oxy-fuel)



Standard table



Rapidclean



Syncromatic



Purchase **Tank emptying** **Extraordinary maintenance**

High **labour saving** allows short-term investment return.

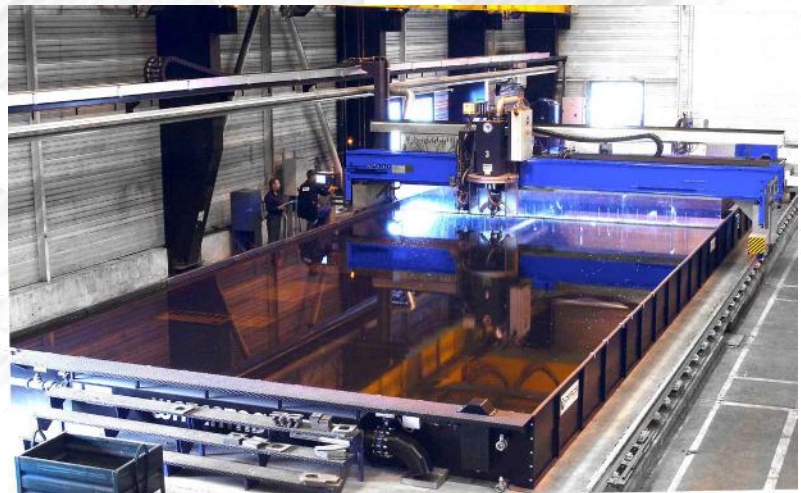
ACQUAMATIC

TABLE FOR UNDERWATER PLASMA

ACQUAMATIC is a water containment table with **adjustable level**, conceived for the application of heavy-duty underwater plasma cutting and mainly used by shipyards and large plant constructors.

ADVANTAGES

- Total abatement of the fumes and dusts produced during sheet metal plate cutting
- Elimination of the luminous effect produced by plasma arc
- Considerable reduction of the noise caused by plasma cutting process



SPRINTER

AUTOMATIC PALLET CHANGING SYSTEM

SPRINTER PALLET CHANGING SYSTEM has been conceived to be integrated into any machine requiring **automation** to transfer the sheet metal plate from the loading and unloading area to the cutting area. SPRINTER is supplied complete with downdraft table. Minimum format mt 1.5x3, maximum format mt 3x15.

It is mainly installed on laser and plasma cutting plants.

ADVANTAGES

- Extremely reduced times to carry Out sheet metal plate changing
- Easy integration with cutting Machine functions
- It enables access to machines provided with ecological cabin
- It enables to carry sheet metal plates into areas where no lifting equipment is available



ECOLINE dust collectors have marked a **significant turn** in the industrial filtration field thanks to their **very high performances**.

SIDEROS ENGINEERING has been the first firm worldwide to introduce a new philosophy on the market : **compact filters integrated** for thermal cutting.

ECOLINE cartridge dust collectors belong to the category of **absolute filters**, because they always guarantee a post-filtration level of dust emissions $<1\text{mg}/\text{m}^3$, even in the presence of extremely fine particles. Once the air has been filtered, it results to be so purified that it can be released directly into the workplace.

The best results are attained in the filtration of dusts and fumes generated by: thermal cutting, welding, smoothing and grinding, and ensure a **long life** even on continuous work shifts.

MODELS

ECO 2C ECO 2V ECO 4 ECO 6 ECO 9 ECO 12 ECO 16 ECO 24

	n°	2	2	4	6	9	12	16	24
CARTRIDGES	n°	2	2	4	6	9	12	16	24
SURFACE	m ²	42	42	84	126	189	252	336	504
AIRFLOW	m ³ /h	1800	1500/2000	2400/3600	3600/5400	5400/8100	7200/10000	9600/12000	11000/15000
VALVES	n°	2	2	4	6	9	12	16	12
HEIGHT	mm	1200	2100	2200	2600	3270	3700	3800	4000
DEPTH	mm	1500	1100	1320	1420	1620	1620	1800	2400
WIDTH	mm	800	750	1250	1300	1950	1950	2300	2500
WEIGHT	kg	320	450	610	750	1300	1500	1700	2380





ADVANTAGES



- High performances and efficiency
- Sturdiness
- Compact dimensions
- Automatic cleaning
- Low energy consumptions
- Filtration class: M
- Abatement of maintenance costs
- Fire risk protection
- Product customization
- Integrated solutions
- Long life
- Filtration efficiency: 99,997%

ECO 2 VERTICAL

To complete ECOLINE dust collector range, we present ECO 2 VERTICAL, an **efficient and compact** unit suitable to be installed on welding, smoothing, grinding and cutting plants.

Thanks to the mechanical pre-separation effect created by **cartridge vertical positioning**, the unit can accept also larger quantities of heavy dry dusts, thus ensuring a larger air flow.

Installed power: 1.5 – 2.2 - 3 - 4 kw

Air flow: 1500 - 2000 - 2500 m³/h.



ADVANTAGES

- Reduced surface on the ground as it develops vertically
- High performances
- Low noise level
- Easy installation
- Reduced energy consumptions
- Accurate design and finishes



Quick release dust collection drawer provided with wheels.

To meet the increasing demand of machines with low consumption and reduced environmental impact, Sideros Engineering proposes ECOTECH, a control board with high technological contents, complete with PLC, inverter and touch-screen panel for operation interface.

This system enables to continuously adjust and control the number of revolutions of the fan motor as well as to monitor the general operation state of the filter, even remotely.

POWER INPUT - Analysis carried out on ECO 6 HC/S with 7,5 kw motorization












CONSUMO ANNUO: ■ ECOTECH kw 22.849 ■ STANDARD kw 39.128

Return on investment (ROI) : 7 months



FEATURES AND ADVANTAGES

-  Electric energy saving up to 60%
-  Noise reduction up to 40%
-  Longer life of filtering cartridges
-  Mechanical wear reduction up to 40%
-  Heating costs reduction
-  Capacity self-regulation
-  On-board control through colour LCD Touch panel
-  Remote monitoring in real time through supervision
-  Wi-Fi connectivity

DUST COLLECTORS FOR ALUMINIUM

Aluminium alloys and titanium processing brings about magnesium dusts and oxides.

Such dusts in a particular concentration, if in contact with an ignition source (e.g.: spark, flame or electric discharge) can give rise to a deflagration with variable power depending on the quantity of dust.

Series R filtering units for aluminium alloys are suitable for this type of application, as they are provided with a **reinforced structure** as well as with calibrated venting systems for the overpressure caused by a possible deflagration.

APPLICATIONS:

Aluminium alloys and titanium processing

- Laser cutting
- Plasma cutting
- Grinding
- Welding
- Smoothing
- Deburring

ADVANTAGES:

- Workplace safety
- Tailored scheduling
- Reinforced structure
- Rupture relief membranes positioned one on the main body and the other on the diverter



CaCO₃ GRAVIMETRIC FEEDER

The calcium carbonate gravimetric dispenser has been conceived to get a **significant reduction of the probabilities of explosions** inside the filter or in the pipes connecting the exhaustor and the machine, due to the accumulation of the magnesium oxide arising from thermal cutting or aluminium processing. The GRAVIMETRIC DISPENSER is installed on the pipe upstream the filter.

APPLICATIONS:

- Laser cutting
- Plasma cutting
- Welding
- Deburring

ADVANTAGES:

- Workplace safety
- Rapidity of installation
- No maintenance costs
- Applicable to any type of dust collector
- Tailored scheduling
- Minimum overall dimensions



ECO 2C

Thanks to its compact and handy structure, the ECO 2C movable unit, provided with **Top Grade cartridges**, can ensure **maximum efficiency** even in continuous working conditions (3 work shifts) and in the presence of large quantities of both fine and heavy dusts.

Provided with automatic cleaning system, it does not require any maintenance nor replacement of filtering means, except after many years.

It is available with 1 or 2 suction arms to exhaust up to 2 welding places contemporary or with side air intake for flexible hose.



TECNICAL DATA

- Fan motor capacity: 3000 m^3/h
- Suction capacity: 1800 m^3/h
- Noise level: 72 dB
- Fan motor: 2.2 kW

For non continuous work conditions SIDEROS ENGINEERING proposes the ECO T movable unit, a **simple and compact** machine suitable for welding and grinding processes.

Filtration occurs through a high efficiency polyester rigid pocket filter; to improve the filtration degree, the unit is endowed with HEPA panel in Class H12. ECO T is equipped with suction arm \varnothing 160 mm, allows the utmost flexibility, as it replaces the traditional centralized suction plants with fixed arms.

ECO T



TECNICAL DATA

- Fan motor capacity: 2500 m^3/h
- Suction capacity: 1300 m^3/h
- Noise level: 70 dB
- Fan motor: 1.1 kW

CENTRALIZED PLANTS

Centralized suction plants are dimensioned, according to existing regulatory requirements, on welding, grinding and scarfing applications.

Their configuration (plant capacity and number of positions) is tailored according to Customer's requirements as well as to the production lay-out.

Collection systems can be integrated, such as:

- Fixed suction arms from 3 up to 7 mt
- Movable suction arms on conduits
- Reeling drums
- Suction hoods
- Fixed welding and deburring benches
- Robot cells

Automatic detectors allow optimizing the electric and pneumatic consumptions of the plant according to actual working requirements.

Sideros Engineering proposes a specific advisory service to analyse requirements and to develop the best solution.



DOWNDRAFT BENCHES

The ETA BENCH guarantees the compliance of workstations with worker protection standards.

Besides being a solid support for workpieces, by means of a motor fan it can suction the dusts and fumes arising during processing steps. Connected to an ECOLINE series filtering unit, it also allows perfectly purifying the suctioned air before releasing it into the atmosphere.

The technical features of ETA benches make them suitable for welding, grinding, smoothing as well as manual plasma cutting operations.

ADVANTAGES

- Reduced pollution of the workplace as well as of the whole department
- Its vertical wall performs the function of a barrier against sparks, splinters and violent light flashes
- No maintenance nor additional costs for spare parts
- Flexibility of use: side walls are movable, hence the possibility of placing workpieces with dimensions larger than those of the bench
- Dusts are collected in specific drawers situated at the base of the bench



FASTCLEAN: DUST EXTRACTION SYSTEM

FASTCLEAN is a transport system enabling **the automatic extraction of dusts** from the filter discharge hopper and conveying them automatically to a container for their disposal.



FLEXIBLE SCREW CONVEYOR WITH COLLECTING DRUM



FLEXIBLE SCREW CONVEYOR WITH BIG BAG

HIGH CAPACITY DISCHARGING SYSTEMS



DRUM STYLE
DISCHARGING
SYSTEMS

The structure allows the housing of containers with capacities ranging from 53 to 265 gal (for instance, metallic drums or big bags)



BIG BAG
DISCHARGING
SYSTEMS

ACTIVE CARBON BOX



Recommended for applications with the presence of oxides, gas and odorous substances

LARGER BIN

with wheels, applicable to all models and versions



SPARK TRAP

supplementary, situated outside the filtering unit



FASTCLEAN: DUST EXTRACTION SYSTEM

FASTCLEAN is a transport system enabling **the automatic extraction of dusts** from the filter discharge hopper and conveying them automatically to a container for their disposal.



FLEXIBLE SCREW CONVEYOR WITH COLLECTING DRUM



FLEXIBLE SCREW CONVEYOR WITH BIG BAG

HIGH CAPACITY DISCHARGING SYSTEMS



DRUM STYLE
DISCHARGING
SYSTEMS

The structure allows the housing of containers with capacities ranging from 200 to 1000 litres (for instance, metallic drums or big bags)



BIG BAG
DISCHARGING
SYSTEMS

ACTIVE CARBON BOX



Recommended for applications with the presence of oxides, gas and odorous substances

LARGER BIN

with wheels, applicable to all models and versions



SPARK TRAP

supplementary, situated outside the filtering unit





ROTOLIFT is a **three-axis** hydraulic positioner and handler specifically designed for assembling and welding operations. Thanks to its functional features, the machine considerably reduces the moving of the workpiece and therefore the use of traditional lifting systems.

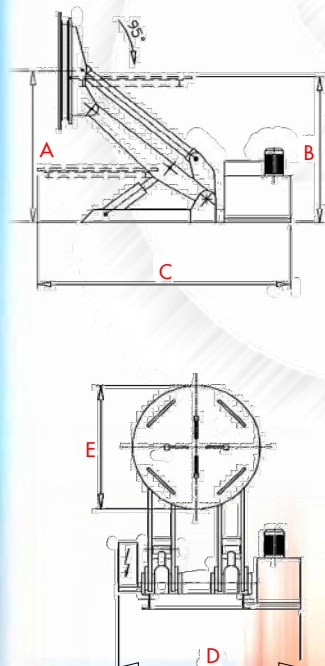
ROTOLIFT is an ergonomic machine featuring great flexibility. Its innovative feature is the possibility not only to **tilt** and **rotate** the workpiece, but also to **lift** and **lower** it.



ADVANTAGES

- Reduction of weldments handling time
- Minor use of traditional lifting equipment
- Safer and more ergonomic working environment
- Lifting, tilting and rotation of a weldment on a single machine
- Improvement of welding quality
- Fast return on investment (ROI)
- Simplified welding procedure

TECHNICAL FEATURES



	Max. capacity	Max. table tilting	Tilt torque	Rotation torque	Rotation time	Height with Vertical table	Height With Horiz. table	Length overall dimension	Width overall dimension	Table dimension	Machine weight
	Kg		Nm	Nm	Oleo. rpm Elect. rpm	Min mm A Max mm	Min mm B Max mm	mm C	mm D	mm E	kg
RL 1250	1250	95°	4900	490	2 2	540 1120	700 1280	1760	1630	Ø 800	757
RL 2000	2000	95° 140°*	7850	1250	1.7 2	550 1300	650 1400	1850	1660	Ø 800	930
RL 3000	3000	95° 140°*	11750	1960	1.5 2	740 1620	720 1570	2400	1825	1100 X 1100	1477
RL 4500	4500	90° 140°*	21200	5300	- 1.5	830 2085	860 2120	2590	2270	1500 X 1500	3012
RL 6500	6500	90° 140°*	31900	7650	- 1.5	900 2380	960 2420	3600	2410	1500 X 1500	3424
RL 8500	8500	90°	41700	8100	- 1	980 2740	1180 2940	4450	2480	1500 X 1500	4360
RL 11000	11000	90°	53950	10790	- 1	1100 2900	1300 3150	4900	2400	1800 X 1800	5100
RL 13000	13000	90°	63750	15600	- 1	970 2710	1260 2965	4500	2500	1800 X 1800	5480
RL 18000	18000	90°	88290	17651	- 1	1070 2770	1300 3000	4875	2800	1800 X 1800	6500

* Optional

The data are indicative

ROTOLIFT

VERSIONS:

HYDRAULIC: hydraulic lifting, tilting and rotation

ELECTRIC: hydraulic lifting and tilting

Electric rotation with VFD for speed control.

LOAD CAPACITIES

- Kg 1250 - Kg 4500 - Kg 11000
- kg 2000 - Kg 6500 - Kg 13000
- Kg 3000 - Kg 8500 - Kg 18000

AVAILABLE ACCESSORIES

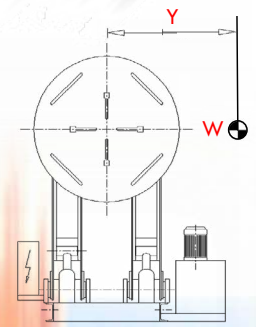
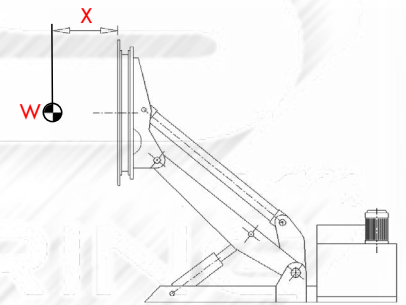
- Rotary ground from 600 to 1500 Amp.
- Foot pedal control for L/R rotation
- Customized rotary table
- Tilting up to 140°
- Teaching System
- Increased rotation torque
- Customized color
- Detachable hydraulic power unit and electric board
- Oversized positioners un to 100.000 kg load capacity



High **labour saving** allows short-term investment return.

ALLOWED LOADS

RL 1250	W - Kg	1250	1000	800	600	400							
	X - mm	400	490	600	790	1160							
	Y - mm	40	50	60	80	120							
RL 2000	W - Kg	2000	1700	1400	1100	800	600	400					
	X - mm	400	460	550	700	950	1260	1800					
	Y - mm	80	90	100	120	160	210	300					
RL 3000	W - Kg	3000	2500	2100	1700	1300	900	500	300				
	X - mm	400	530	640	820	1150	2000	3300	3900				
	Y - mm	80	100	120	160	230	420	670	790				
RL 4500	W - Kg	4500	3900	3300	2700	2100	1500	1200	900	600	300		
	X - mm	480	540	620	740	950	1280	1600	2100	3100	6100		
	Y - mm	120	140	160	190	240	330	410	540	790	1500		
RL 6500	W - Kg	6500	5700	4900	4100	3300	2500	2100	1700	1300	900	500	
	X - mm	500	560	640	750	920	1200	1400	1700	2200	3100	5580	
	Y - mm	120	140	160	180	220	290	340	420	550	630	730	
RL 8500	W - Kg	8500	7500	6500	5500	4500	3500	3000	2500	2000	1500	1000	
	X - mm	500	560	640	750	910	1140	1300	1550	1930	2550	3750	
	Y - mm	95	110	130	150	190	240	280	340	400	550	820	
RL 11000	W - Kg	11000	9800	8250	7130	5850	4550	3950	3150	2500	1800	1210	900
	X - mm	500	550	650	750	900	1150	1300	1550	1950	2600	3700	4900
	Y - mm	90	110	130	150	200	250	290	350	440	590	840	900
RL 13000	W - Kg	13000	11000	9000	7500	6000	4500	3500	3000	2500	1800	1200	
	X - mm	500	585	710	840	1000	1300	1650	1900	2250	3100	4600	
	Y - mm	120	140	165	190	230	300	375	430	500	685	1000	
RL 18000	W - Kg	18000	15000	12000	10500	7850	6350	5100	3800	2700	1200	700	
	X - mm	500	585	650	750	900	1150	1300	1550	1950	2600	3700	
	Y - mm	100	110	130	150	180	240	270	340	440	610	900	



and subject to change without notice

WELDING POSITIONERS HEAD and TAILSTOCK

SYNCROLIFT

Sideros Engineering Head & Tailstock Positioners are used to weld and assembly **long and large** weldments in many different application fields.

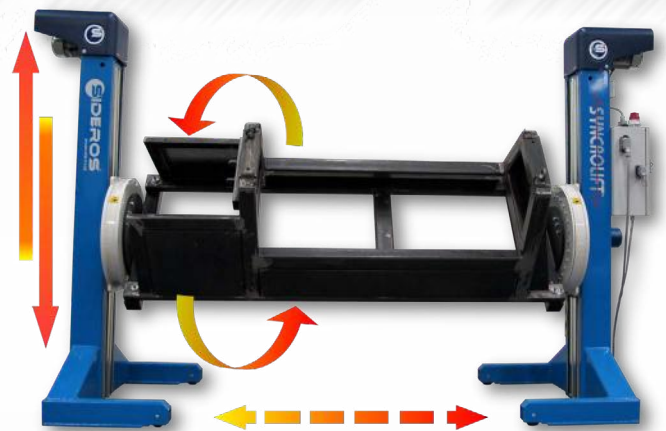
Syncrolift features two main axis: Electrical elevation/descent, and Electrical 360° left/right rotation.

A typical configuration is composed of a **motorized** headstock positioner with an **idler** tailstock.



ADVANTAGES

- Improved Safety
- Proper Ergonomics
- Improved weld quality
- Cost savings and profit increase
- Welding/Assembly procedures repeatability



High **labour saving** allows short-term investment return.

OPTIONALS

- Footswitch for L/R rotation control
- Idler column on rails
- 400/800/1200/1600 Amp rotary ground
- Double rotation torque
- Customized column height
- Oversized load capacity (over 25000 kg.)
- Remote pushbutton pendant
- Arrangement for track
- Customized color
- Teaching system
- Hydraulic jack
- Syncrolift Mono

MODELS

MODELS	LOADING CAPACITY kg	MAX TORQUE Nm	MIN TABLE HEIGHT mm	MAX TABLE HEIGHT mm
SLC 20	2.000	3.000	350	1.800
SLC 40	4.000	3.500	350	1.900
SLC 50	5.000	4.000	400	1.950
SLC 60	6.000	5.500	450	1.950
SLC 100	10.000	7.500	500	1.950
SLC 120	12.000	10.000	550	1.950
SLC 150	15.000	10.000	550	2.000
SLC 200	20.000	22.000	550	1.850
SLC 250	25.000	25.000	700	1.850
SLC 300	30.000	35.000	750	2.000

ROTOCLEAN



Compact, safe and efficient, ROTOCLEAN allows a rapid and cheap removal of slag, burr, calamine and rust from oxycut or plasma cut workpieces in full safety and autonomy.

Rotoclean replaces traditional and expensive manual grinding operations, which, besides being the cause of lesions to eyes and hands, give rise to air and noise pollution.

Equipped with a safety protection, which totally embeds the rotary drum, it preserves the operator from any hazardous contact with the machine.

The **vulcanized rubber** applied inside the drum and the safety apron protection contributes to considerably reduce the noise produced during the processing of workpieces.

The access door to the drum is equipped with **hydro-pneumatic cylinders**, which make its opening and closure easier.

ACCESSORIES

- **Sound absorbing cabin**, for a further reduction of noise level.
- **Suction and filtration unit** able to treat the dusts produced during processes.

ADVANTAGES

- High productivity
- Low operation costs
- Utmost noise reduction
- High sturdiness
- Safe use
- No maintenance
- Certified quality



High **labour saving** allows short-term investment return.

MODELS

ROTOCLEAN 550		WITHOUT CABIN	WITH CABIN
HEIGHT	mm	1.600	2.000
WIDTH	mm	2.800	3.100
LENGHT	mm	1.330	1.805
POWER	kw	3	3
WEIGHT	kg	1.650	2.400
MAX. CAPACITY	kg	1.000	1.000
MAXIMUM SIZE PIECES	mm	1.000 x 350	1.000 X 350

Featuring an extremely sturdy frame, the hydraulic press with movable **vertical rod and cylinder**, PME range, guarantees excellent reliability even on very heavy work shifts. This machine is suitable for the **straightening** of: sheet metal plates, workpieces processed through oxy or plasma cutting, round bars, pipes and carpentry workpieces.

Its primary feature is that the workpiece is not moved and operations are carried out thanks to the **moving of the vertical rod and cylinder**.

MAIN COMPONENTS

Structure:

in high quality steel, electrowelded, composed of movable vertical rod and table

Hydraulic cylinder:

made of highly resistant and very thick steel

Cylinder supporting shuttle:

applied to the vertical rod beam, it enables the transversal movement of the cylinder

Movable vertical rod:

the movement of the movable vertical rod is driven by two sturdy self-blocking motor-reducers with a gradual setting in action

Hydraulic system:

it consists of components carefully selected among the best international brands

Control panel:

suitably positioned, it controls all press functions



WORK POWER:

200 ton - 500 ton

WORKING AREA:

mt 4 x 2 / mt 6 x 2,5 / mt 8 x 3

AVAILABLE ACCESSORIES:

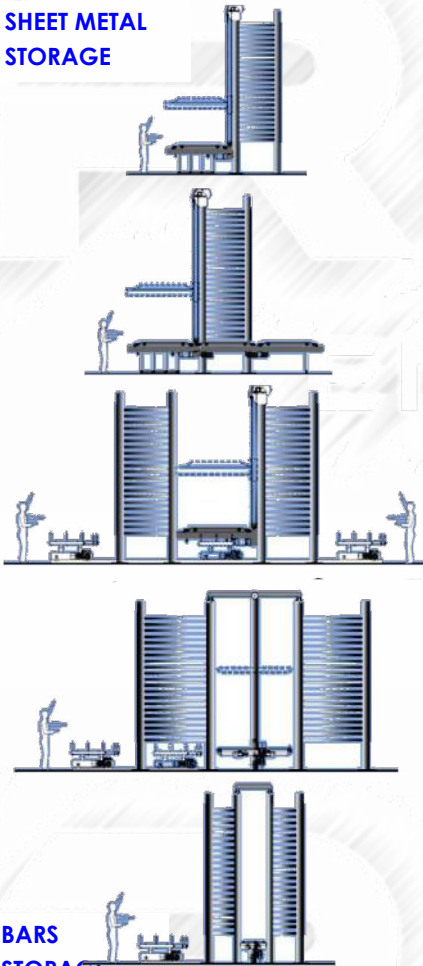
- Lifting pellets to be inserted on the working surface of the bed
- Ram to be assembled on the roller bearing for manual or electric rotation.

SPAZIOMATIC

The range of vertical storage systems SPAZIOMATIC is indispensable to organize and **optimize the storage of sheet metal plates and long profiles**, to reduce manufacturing times and to handle material with the utmost safety.

MODELS

**SHEET METAL
STORAGE**



SPAZIOMATIC "SHEET METAL" with a single or double tower. It is used to store packs of sheet metal plates. With the aid of an elevator actuated by gearmotor and chains, the pack is quickly handled from the inside of the structure to the inlet/outlet of the storage system and vice versa.

SPAZIOMATIC "BARS", automatic vertical storage system for long material such as bars, profiles and pipes. It enables the automatic storage and picking up of material both in bundles and in single pieces, raw or processed and in different lengths and weights.

SPAZIOMATIC is proposed in the following standard formats:

SHEET FORMATS:

- 1250 X 2500 mm
- 1500 x 3000 mm
- 1500 x 4000 mm
- 1500 x 6000 mm
- 2000 x 4000 mm
- 2000 x 6000 mm

BAR FORMATS:

- 700 X 4000 mm
- 900 x 4000 mm
- 700 x 6000 mm
- 900 x 6000 mm
- 700 x 7000 mm
- 900 x 7000 mm

MAXIMUM WEIGHT CAPACITY PER DRAWER

- kg. 1500
- kg. 3000

kg. 5000



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RATP

Rexroth
Bosch Group

RIELLO

Eni Saipem
GROUP

SIEMENS

SMAG
Salzgitter Maschinenbau

Solar Turbines
A Caterpillar Company

stx France

ThyssenKrupp

TOYOTA
MATERIAL HANDLING

TRAIL KING industries

WALDRICHSIEGEN

The added value of our products includes a **full and efficient after-sale technical support** supplied by highly qualified internal personnel able to propose the best solutions even for the most exigent customers.

- **On line support:** for management of failures, verifying of specific requirements and troubleshooting;
- **Remote Diagnostics:** Tele-assistance support can considerably reduce intervention times in the event of failures or malfunctioning
- **Software Upgrade:** to always allow the utmost performances of our machines



ENGINEERING

SCHEDULED MAINTENANCE

Carried out by our technicians according to customer's working needs. Preventive maintenance is carried out according either to a defined schedule or to actual working hours, with the aim at maintaining the plant in the best operative conditions.

SPARE PARTS STOCK

Our spare parts stock for just in time delivery is always completely available. This department carries out the preparation and shipment of the material necessary for ordinary and extraordinary maintenance interventions. All items are associated to a bill of materials corresponding to the series number of the machine produced.

TRAINING COURSES

Assisted by interactive video and digital supports. Our training courses, dedicated to plant operators and maintainers, are performed by specialized technicians assisted by means of interactive material and teaching methods of different kinds, in order to offer a service of great value.

Training courses help to:

- Minimize plant downtime
- Identify malfunctioning quicker
- Increase production yield
- Optimize investments yield
- Ensure a longer life of machines
- Reduce production costs
- Increase the quality of products





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