

# ROLLER IRONERS

Simply professionals

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# Roller Ironers for every needs

Ironing is the latest and the most delicate phase of the textile treatment. It should be flawless, smooth and without defects because its quality can be seen and touched. For this reason, this phase requires the continuous presence of the operator and equipment efficient as well as ergonomic, to guarantee high comfort and great results.

## A complete range of equipment

The range of our professional ironing machines is the most comprehensive in the market and, due to the different diameters, lengths and types of coverage, is able to satisfy all the requirements without losing the quality of results. S line includes 10 models of flatwork ironers with different roller length from 80 to 320 cm (S80 - S320/40) and two types of heating system: electric and steam. Why 10 models of ironers? First, because clients have different needs, second, there are various types and dimensions of linen to be treated and every country has its bed sizes, so our company has tried to reply at every requirement with the right solution.

## A perfect surface for excellent results

For customers, the most important aspect of a laundry service is the quality of ironing because it can be seen and touched and it's able to transmit a positive sensation. The ironing quality mainly depends on two factors: perfection of the ironing surfaces and temperature stability. That's why since 1997 we've decided to invest in the development of advanced technological solutions, such as the extruded and anodized alloy of aluminium for the plate, that ensures an excellent ironing surface. Unlike the traditional chrome plate, the extruded surface eliminates all the distortions: it's extremely smooth and remains unchanged also at high temperature. The deep anodized treatment, then, makes the surface hard and inert to chemical agents, eliminating the problems with corrosion (e.g. the damage of plate caused by residual chlorine on clothes). Unlike traditional systems that are heated from back surfaces, our armoured and sealed heating elements are placed inside the ironing surface, so the heat is generated from the core of the plate. Finally, due to the high thermal conductivity of the aluminium, our flatwork ironers reach the operating temperature in every parts of the machine quickly (from 20° C to 180° C in few minutes) allowing great results in term of energy savings and quality of ironing.

## Ironing parameters always under control

These high performance roller ironers deserve an electronic control that further emphasizes their features. Actually, we offer even three types of control systems.

ST18: standard on the small ironers (S80 - S120/18EM), it allows to manage 3 different values of temperature (100 - 150 - 200°C)

ST23: standard on our medium ironers (S100/25 - S200/30), it allows to manage the temperature (no pre-set values from 20 to 180°) using the P.I.D. system (Proportional - Integral - Derivative). It regulates the roller rotation speed for ironing a rather damp laundry or difficult folds, and manages the suction motor for eliminating the steam produced during the ironing process (available from S140/25). ST23 also controls the payment system and offers a data archive of mechanical operation.

ST46: this control system is standard on our larger machines (S250/40-S320/40) and, in addition to the ST23 features, allows to modulate through 3 heating sets the heating power optimizing the consumption (no over-heating, best heat distribution, less consumptions) and ensuring an excellent quality of ironing. It allows to create or customise ironing programs (wool, delicate fabrics, etc.) and, thanks to the hydraulic press system that controls the ironing pressure, ensures the perfect ironing of difficult folds and fabrics.



## Front-loader machines

The entire gamma of Grandimpianti roller ironers is front-loader: the laundry must be introduced and collected from the front of the machine. This means that every equipment can be installed against the wall and can be used just by one operator. Each machines have a useful and large collecting tank.



## Machine safety

Like the other Grandimpianti equipment, also our flatwork ironers have double safety systems and redundant alarm circuits, such as electronic and electromechanical safety thermostats that prevent the overheating and automatic devices that lift the basin in case of black-out events. Whenever the device is left unattended, the system automatically shuts it off, moving the hot plate away from the roller.



## Temperature management

Our aluminium basing, due to the thermal insulation and thanks to an appropriate temperature control, allow to reach excellent thermal performances. The ST control systems, standard on the entire gamma, manage the temperature using the P.I.D. system (Proportional - Integral - Derivative) in order to keep the temperature as stable as possible.



## User safety

Every machine is equipped with some user protection systems, such as a finger safety rod that protects from crushing or burns by inverting the roller rotation and lifting the heating plate, a pedal that stops the roller rotation in order to spread the linen over the feeder and, finally, an emergency push-button (double starting from S160).



## Speed management

Models controlled by ST23 and ST46 systems, allow to manage also the roller speed (from 2 to 4m/min on ST23 and from 2 to 4.4 on the ST46): 7 steps to ensure the ironing also of fully dried or wrinkled fabrics. Managing the roller speed, it's an important feature, because avoids the slowdowns of the job and allows to deal with every kind of fabrics, even the most difficult.



## History function

Through a push button combination it's possible to read the mechanical life of the roller ironer: ST23 and ST46 controls save, indeed, the number of plate movement.

# Great ironing performance depend on a team effort

The ideal solution for ironing flatwork linen is always a roller ironer. The perfect combination between flawless surfaces, constant temperatures, soft padding and breathable rollers guarantee the most effective result.



## Sparring partner of a perfect surface

In addition to a steady ironing surface to obtain a perfect result, a professional ironer requires also a high quality roller. Plate and roller, indeed, are two elements that work in perfect harmony during the ironing process. Beside a large range of flatwork ironers with different lengths we offer, then, a great selection of diameters (18, 25, 30 and 40 cm) and types of coverage, to best meet any production needs.



## All good things come in threes

We provide three types of roller padding: basic, intermediate and advanced. The basic roller, standard on our smaller machines (S80-S120/25), is equipped with a triple layer of soft steel wool, a double layer of jute (which prevents any leakage of material), one layer of cotton felt and, then, an outer cotton coating. This allows ironing laundry up to 15% UR. The intermediate roller is used as a standard in the S140/25 AV, S160/30 and S200/30 ironers. It's a perforated roller equipped with an extractor able to iron flat laundry with an humidity up to 20/25%. It's covered with a double layer of steel wool, a layer of felt and a final cover of washable and indestructible NOMEX®. Finally, the advanced roller is standard on the S250-S320/40 (optional on 140/25 and the ironers with diameters of 30 cm) is perforated and provided with extractor, but is made with a special spring structure of mobile plates (SPRINGPRESS®) that ensures maximum transpiration and, therefore, requires just a cover with a layer of NOMEX® felt. This roller is able to iron also wet laundry with a humidity up to 40/45%.



## Machine structure

Since the 1997 our professional ironers has been made with the Skinplate: a metal sheet covered by a plastic film of PVC. This solution guarantees a long-life as well as a constant aesthetic value of the products. PCV, indeed, is stable, inert and offers an efficient barrier to liquids, gases and vapours. So it guarantees the longevity of products, a particularly important characteristic also in the laundry sector. PVC plastic film is also an ecological sustainable solution: as many as 56% of PVC used to cover the metal sheet is made of common salt, a completely renewable resource. Once at the end of their life, then, the products covered with skinplate, produce 50% of carbon dioxide less than other polymers made from petroleum.



## Heating element position

In addition to being installed inside the ironing plate so that generating the heat from the heart of the ironing surface, the heating systems are placed along the plate in asymmetrical way; the 66% of the heat is focused in the initial part, where the plate suffers a greater thermal shock (the laundry is cold and wet), and the remaining 33% at the exit of linen. This ensures a uniformity of heat throughout the ironing surface with exceptional ironing performance.



## Usability

In order to help the user on their daily job, our larger machines (S250/40 S-320/40) are equipped with belt feeding units that ease the laundry introduction inside the machines and brush-like take-off systems that help the exit of the items while preserving roller coating quality and minimising the wear of the same. There are also two foot pedal function available: standard and optional. The standard pedal manages the plate and roller movement with a double function: one impulse to start the movement another impulse to stop the movement. The other type manages the movement of plate and roller only with the operator action on the foot pedal: once the operator leave the foot from the pedal the unit automatically stops.



## No downtime

Just like our washing machine and dryers, also the flatwork ironers are equipped with armoured, sealed and moisture resistant heating elements, that, unlike the traditional ironers, don't have effect on the differential circuit. This means that they are not subjected to downtime.



## Thermal insulation

Every aluminium plate has a thick thermal insulation made of 25 mm of ceramic wool. No energy waste and quick temperature rise.

# Grandimpianti listens to the market



We've always listened to our customers: today they're asking speed, connectivity and convenience. Our answer is an innovative solution that makes their job smarter, faster and easier.



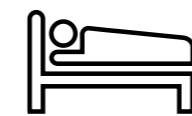
## Machines ready to go everywhere!

Listening, observing and analysing the market is crucial for us! We've always been opened to the world! This inclination has helped us to develop versatile and innovative machines, ready for different environments, industries and geographic areas: from small restaurant to large offshore platform, from food industry to cruise ships, from hospitals to self-service laundries and much more. But, above all, they are prepared to be always connected and easily managed from everywhere, anytime you need!

## National and international regulations

Collecting, analysing and developing the customer requirements is the vision that permit us to create solutions ready for sharing with a wider network of intelligences: the market. This also leads our solutions to conform to the international standard regulations (extra-UE included): we respect the safety and the environmental protection rules, therefore, our machines are ready for all markets and countries.

## A very complex target market that includes:



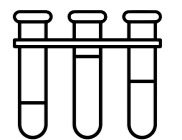
Hospitality industry



Professional laundry with Gentlewash® system



Nursing homes



Pharmaceutical industry



Mining camps



Oil facilities



Health service



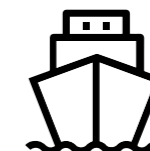
Industrial laundry



Dairy sector



Multi-Housing & self-service laundry (My Clean Clean)



Ships & marine transports



Catering service & restaurant

# Models S

standard = ●  
not available = ○

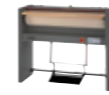
optional = +  
data not available = /



S 80



S 100/18EM



S 120/18EM



S 100/25



S 120/25



S 140/25



S 140/25V - AV

		S 80	S 100/18EM	S 120/18EM	S 100/25	S 120/25	S 140/25	S 140/25V - AV
<b>Capacity at U.R.%</b>	kg/h							
	10 ÷ 15 %	16	20	25	30	35	40	40
	20 ÷ 25 %	○	○	○	○	○	○	25 ÷ 30
	35 ÷ 40 %	○	○	○	○	○	○	○
	40 ÷ 45 %	○	○	○	○	○	○	○
<b>Rotation</b>	Speed (mt/min)	2.1	2.1	2.1	3.9	3.9	3.9	2 ÷ 4
	Noise (dB)	45	45	45	55	55	55	60
<b>Dimensions</b>	Width (mm)	1000	1150	1350	1400	1600	1800	1800
	Depth (mm)	360	400	400	420	420	420	420
	Height (mm)	470	940	940	1005	1005	1005	1005
<b>Packing dimension</b>	Width (mm)	1088	1220	1420	1480	1680	1880	1880
	Depth (mm)	500	470	470	500	500	500	500
	Height (mm)	680	1080	1080	1150	1150	1150	1150
<b>Weight</b>	Net (kg)	51.6	72	82	110	118	126	130
	Gross (kg)	71	80	93	119	130	145	149
<b>Heating alternative</b>	Electric standard (kW)	2	3.4	4	5	6	7	8.4
	Indirect steam (kPa)	○	○	○	○	○	○	○
<b>Cylinder motor</b>	Speed control	○	○	○	+	+	+	●
	Power (kW)	0.05	0.05	0.05	0.18	0.18	0.18	0.18
<b>Fan Motor</b>	Frequency control	○	○	○	+	+	○	○
	Power (kW)	○	○	○	+	+	○	0.035 (AV only)
<b>Voltage supply</b>	Standard	380-415V 3-50 ÷ 60Hz	380 - 415 V 3N - 50 ÷ 60 Hz		380 - 415 V 3 ~ 50 Hz		380 - 415 V 3 ~ 50 Hz	
	Optional 1	220-240V 3-50 ÷ 60Hz	220 - 240 V 3 - 50 ÷ 60 Hz		220 - 240 V 3 ~ 50 Hz		220 - 240 V 3 ~ 50 Hz	
	Optional 2	220-240V 1~50 ÷ 60Hz	220 - 240 V 1 ~ 50 ÷ 60 Hz		220 - 240 V 1 ~ 50 Hz		+	+
<b>Consumption data</b>	Electricity (kW/h Standard power)	1.2	2	2.4	3	3.6	4.2	5
	Gas G20 (Standard power m <sup>3</sup> /h)	○	○	○	○	○	○	○
	Gas G30 (Standard power kg/h)	○	○	○	○	○	○	○
	Indirect steam (kg/h)	○	○	○	○	○	○	○
<b>Controls</b>	ST18 Control	●	●	●	○	○	○	○
	ST23 Control	○	○	○	●	●	●	●
	ST46 Control	○	○	○	○	○	○	○
<b>Payment system</b>	Electromechanical coin meter	○	○	○	+	+	+	+
	Electronic coin meter	○	○	○	+	+	+	+
	Ready for central payment system	○	○	○	+	+	+	+

# Models S

standard = ●  
not available = ○  
optional = +  
data not available = /



		S 140/25AVL	S 160/30	S 160/30AV	S 160/30AVL	S 200/30AV	S 200/30AVL	S 250/40E+V	S 320/40E+V
<b>Capacity at U.R.%</b>	kg/h								
	10 ÷ 15 %	40	50	32 ÷ 50	32 ÷ 50	52 ÷ 79	52 ÷ 79	○	○
	20 ÷ 25 %	25 ÷ 30	○	26 ÷ 37	26 ÷ 37	38 ÷ 55	38 ÷ 55	○	○
	35 ÷ 40 %	12	○	○	○	○	○	○	○
	40 ÷ 45 %	○	○	○	20 ÷ 25	○	25 ÷ 32	E 55 ÷ V 85	E 70 ÷ V 85
<b>Rotation</b>	Speed (mt/min)	2 ÷ 4	3.9	2 ÷ 4	2 ÷ 4	2 ÷ 4	2 ÷ 4	1.8 ÷ 4.4	1.8 ÷ 4.4
	Noise (dB)	60	50	50	50	50	50	50	50
<b>Dimensions</b>	Width (mm)	1800	2200	2200	2200	2600	2600	3415	4115
	Depth (mm)	420	500	500	500	500	500	940	940
	Height (mm)	1005	1100	1100	1100	1100	1100	1202	1202
<b>Packing dimension</b>	Width (mm)	1800	2280	2280	2280	2690	2690	3530	4230
	Depth (mm)	500	610	610	610	610	610	850	850
	Height (mm)	1150	1300	1300	1300	1300	1300	1480	1480
<b>Weight</b>	Net (kg)	135	257	262	262	294	294	663	760
	Gross (kg)	154	295	300	300	350	350	748	850
<b>Heating alternative</b>	Electric standard (kW)	8.4	13.2	13.2	13.2	16.8	16.8	37.2	48.6
	Indirect steam (kPa)	○	1000 ÷ 1200	1000 ÷ 1200	1000 ÷ 1200	1000 ÷ 1200	1000 ÷ 1200	1200	1200
<b>Cylinder motor</b>	Speed control	●	○	●	●	●	●	●	●
	Power (kW)	0.18	0.36	0.36	0.36	0.55	0.55	0.92	0.92
<b>Fan Motor</b>	Frequency control	○	○	○	○	○	○	●	●
	Power (kW)	0.035	○	0.12	0.12	0.12	0.12	0.18	0.18
<b>Voltage supply</b>	Standard		380 - 415 V 3 ~ 50 Hz		380 - 415 V 3 ~ 50 Hz		380 - 415 V 3 ~ 50 Hz		380 - 415 V 3 ~ 50 Hz
	Optional 1		220 - 240 V 3 ~ 50 Hz		220 - 240 V 3 ~ 50 Hz		220 - 240 V 3 ~ 50 Hz		220 - 240 V 3 ~ 50 Hz
	Optional 2	+	●	●	●	●	●	●	●
<b>Consumption data</b>	Electricity (kW/h Standard power)	5	8	8	8	10	10	22	29
	Gas G20 (Standard power m <sup>3</sup> /h)	○	○	○	○	○	○	○	○
	Gas G30 (Standard power kg/h)	○	○	○	○	○	○	○	○
	Indirect steam (kg/h)	○	35	35	35	40	40	60 ÷ 70	60 ÷ 70
<b>Controls</b>	ST18 Control	○	○	○	○	○	○	○	○
	ST23 Control	●	●	●	●	●	●	○	○
	ST46 Control	○	○	○	○	○	○	●	●
<b>Payment system</b>	Electromechanical coin meter	+	+	+	+	+	+	○	○
	Electronic coin meter	+	+	+	+	+	+	○	○
	Ready for central payment system	+	+	+	+	+	+	○	○

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