PIONEER SYSTEM

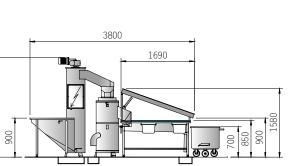
Automatic line for potato peeling

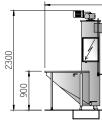
PIONEER SYSTEM

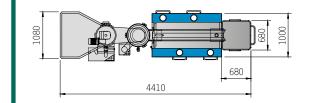
Automatic line for potato peeling

TECHNICAL DRAWINGS

PIONEER SYSTEM WITH MONO-DIRECTIONAL LINE









CHARACTERISTICS	CONSTRUCTION	• Peeling line made of AISI 304 stainless steel throughout.	TECHNICAL DA
		Elevator with prewashing hopper and flow conveyor.	Capacity kg/h
		Peeler with (food-grade) abrasive disk.	Electrical connection
		Potato peeler water inlet with timer-controlled solenoid valve.	Installed power kV
		Removable peel collection filter.	Elevator water inle
		 4- or 6-station sorting table with a large tank to receive potatoes, and two (food-grade) plastic cutting boards with waste drop openings and disposal bins. 	Elevator water dra
			Potato peeler wate
		Trolley with tank with a capacity of 200 litres.	Potato peeler wate
			Finishing vat wate
	FUNCTIONAL	Screw elevator powered by a gearmotor, with a potato flow diverting device (bi-directional model only).	Finishing vat wate
			Compressed air in
		 Potato peeler outfeed with timer-controlled pneumatic open- ing/closing. 	
		• Peeler with a removable abrasive disk powered by a gearmotor.	
		• 4-station finishing vat with inclined chute for potato discharging, and cycle start/stop control.	
		• 6-station finishing vat with conveyor belt for potato discharging, and cycle start/stop control.	
		• 24V low voltage control panel with: power light, potato load- ing and peeling time programmers, elevator and peeler start buttons, peeler outfeed opening/closing/automatic switch, belt start/stop switch, emergency stop button.	



WITH HARMONISED STANDARDS AND PROVIDED WITH THE CE MARKING

Quality Management System

NILMA S.p.A.

CE

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A CONTINUOUS LINE FOR HIGH OUTPUT REQUIREMENTS

Pioneer System features high productivity combined with particularly user-friendly operations. A single line is able to wash, peel and finish large quantities of potatoes quickly and rationally. The work sequence starts at the feeding hopper, where potatoes are washed and then conveyed by a special elevator to the peeler. Peeling is carried out by an **abrasive disk**. During this phase, the water taken into the peeler conveys peel residues to the filter.

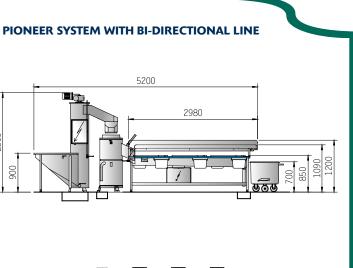
At the end of the cycle, potatoes are automatically discharged into the **sorting table** for finishing by hand; they then pass into the chute or onto the **conveyor belt** (depending on the model) to be discharged into the product collection trolley. The Pioneer Integrated System is available in two versions, with one or two potato peeling machines, with outputs of 600 and 1200 kg/hour.

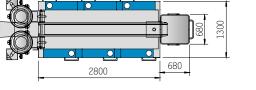
Pioneer System, the continuous system for peeling potatoes that guarantees minimal wastes and impressive labour savings, designed to make potato processing safer, more hygienic and more economical in every modern kitchen and ready-to-eat fruit and vegetable processing plant.



LA SCIENZA DELLE GRANDI CUCINE







ATA	MONO-DIRECTIONAL	BI-DIRECTIONAL
	600	1200
tion	3~230/400V 50Hz + PE	3~230/400V 50Hz + PE
<w< td=""><td>2,7</td><td>4,2</td></w<>	2,7	4,2
llet Ø	3/4″	3/4″
rain Ø	2″	2″
iter inlet Ø	1/2″	2 x ½″
iter drain Ø	2″	2 x 2"
ter inlet Ø	3/4″	3/4″
ter drain Ø	1″ 1/2	1″ 1/2
inlet Ø	1/4″	1/4″





PIONEER SYSTEM

Automatic line for potato peeling

PIONEER SYSTEM WITH BI-DIRECTIONAL LINE

PIONEER SYSTEM WITH MONO-DIRECTIONAL LINE

CLEAN

AREA

FILTER

Installed underneath the outfeed of the peeler, it consists of a large tank with a removable filter which traps peeling wastes.

THE PIONEER DUAL PEELING SYSTEM

The two Pioneer K/30 peelers are able to process 60 kg of potatoes (30+30 kg) in alternate cycles. The two systems enable perfect peeling while minimising wastes. A pneumatic device opens and closes the outfeeds to discharge the peeled product from the peelers directly onto the sorting table.

THE SIX-STATION SORTING TABLE

The sorting table is designed to enable the ergonomic and rational finishing of peeled potatoes. It features a large tank to contain the product with two (food-grade) cutting boards with waste drop openings and disposal bins.

DOUBLE-DISCHARGE ELEVATOR

able to operate with two flow directions.

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The elevator collects potatoes from the large feeding hopper with a loading capacity of 250 kg and feeds

the two peelers in alternation by means of a conveyor

The quantity of product loaded into the peelers and

peeling times are programmed on the control panel.

Designed to accommodate six workstations, it has a conveyor belt which discharges the product into the trolley. The adjustable-height vat is fitted with buttons to start and stop the processing cycle.

Pioneer System adapts to the potatoes' shape as it peels them. This minimises processing wastes.







The mono-directional and bi-directional systems are equipped with stainless steel trolleys with a 200-litre tank to collect the finished product.

MONO-DIRECTIONAL ELEVATOR

DIRTY

AREA

The feeding hopper, where prewashing takes place, has a capacity of 250 kg of potatoes and is connected to the endless screw elevator which feeds the Pioneer K/30 potato peeler. The elevator operating time, programmable on the control panel, sets the quantity of potatoes to be loaded into the peeler.

THE PIONEER PEELING SYSTEM

The Pioneer K/30 automatic peeling system is able to process 30 kg of product per cycle; the peeling time (2-3 minutes) can be adjusted by using the programmer on the control panel.

The special shape of the (food-grade) abrasive disk ensures minimal peeling wastes. A timer opens the outfeed to discharge potatoes onto the sorting table. Water is fed during the peeling phase only. A large stainless steel filter collects the peel residues.

Two areas for an unbeatable hygiene

The Pioneer System line enables a clear separation, into two separate rooms, of the section where product is loaded (DIRTY AREA) and the peeling and finishing zones (CLEAN AREA). This optimal layout guarantees an unbeatable hygiene during processing as well as a better work flow.



THE FOUR-STATION SORTING TABLE

The sorting table is designed to facilitate the finishing of peeled potatoes. It features a large tank to contain the product with two (foodgrade) cutting boards with waste drop openings and disposal bins. Designed to accommodate four workstations, it has an inclined chute which discharges the product into the trolley. The vat is fitted with buttons to start and stop the processing cycle.





The peeling line can be completed with an RG 400 INOX or a TCB **203** vegetable preparation machines to dice or slice potatoes or to cut them into sticks.

OPTIONS

 Additional product collection trolley made of AISI 304 stainless steel, with rounded corners, handle and four nylon wheels. Dimensions (WxLxH): mm 640x780x700.

