



Silver Broch

POST HARVEST TECHNOLOGY

EFFICIENCY, FLEXIBILITY AND PRODUCT CARE



KNOWLEDGE THROUGH EXPERIENCE

Continuous and close contact with growers and traders over decades has built up extensive knowledge of current and future needs in crop cultivation and post-harvest handling. Good field development must be complemented by careful warehouse management, combining efficiency and flexibility.



WIDE RANGE OF SOLUTIONS FOR EVERY PROCESS

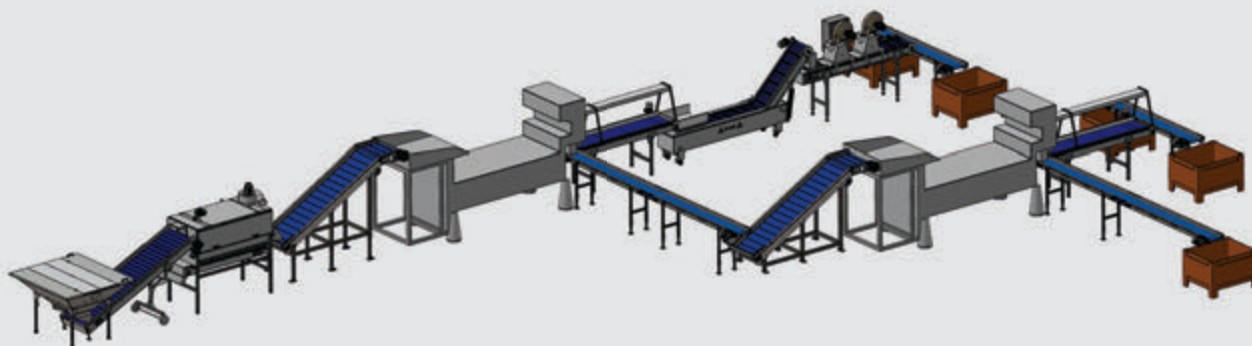
From warehouse reception to final packing and dispatch, JJ Broch provides a complete line of equipment to optimise every phase, ensuring excellent quality while reducing shrinkage and product damage.



Work Line Concept

Receiving – Cleaning – Selection – Grading – Packaging

Combining in-line equipment enables multiple layouts and total adaptation to the needs of both the customer and the product.





PRODUCT RECEPTION

The product is transported from the field by different means and formats. Warehouse reception must adapt to the way it is delivered, ranging from reception hoppers to bin tippers for containers coming from harvesters.

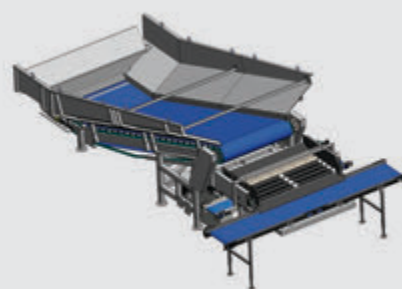
LINEAR FLOW WITH NO DROPS IN HEIGHT

All reception and elevation equipment is designed to eliminate unwanted level changes to avoid impacts and damage to the product.



Bunker

A reception system adaptable to any format, from high-capacity trailers to big bags. An efficient solution that combines high unloading capacity with its own cleaning system.



Model	Dimensions (length x width) (cm)	Belt Width (cm)	Height Elevation (entry/exit) (cm)	Capacity (kg/h)	Power (kW)	Weight (kg)
BUNKLIMP	540 x 493	150	84/ 94-130	Up to 35.000	4.04	3.100

Hoppers

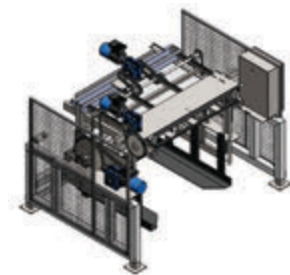
A wide range of hoppers equipped with overhead conveyor belts. Capacities range from 137 litres for manual box handling to 4.100 litres with capacity for several bins.



Model	Hopper dimensions (length x width) (cm)	Width of belts (cm)	Unloading height (min-max) (cm)	Hopper capacity (l)	Capacity (kg/hour)	Power (kW)
ALIM-XS	-	30/50/70	60-475	-	-	0.37/0.75/1.1
ALIM-S	104 x 105 x 70	30	60-255	137	9.000	0,37
ALIM-B	185 x 185 x 115	30	60-255	863	9.000	0,37
ALIM-XL	185 x 185 x 157	30	60-255	2.220	9.000	0,55
ALIM-BUNK	370 x 250	70	175-235	1.737	Up to 15.000	1,1
ALIM-4T	300 x 221 x 250	70	115-375	4.184	Up to 15.000	1,1 + 0,75

Box tipper

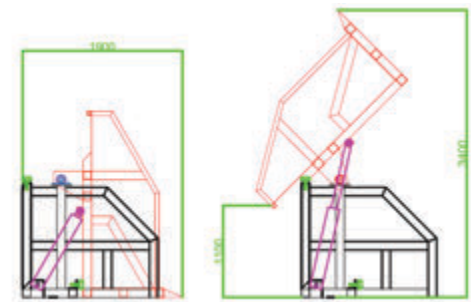
Maximum care of the product with sensor-controlled unloading that adapts to the required throughput. Driven by only three electric motors, it requires low maintenance while delivering high performance. Remote control operation allows handling directly from internal transport vehicles.



Model	Static Dimensions (length x width x height) (cm)	Unloading height (cm)	Max. Dimensions of the box (cm)	Max. Weight of the box (Kg)	Power (kW)
VPE-400	265 x 170 x 150	115	120 x 120 x 80	400	3 x 0,55
VPE-800	300 x 200 x 180	115	120 x 120 x 120	800	3 x 0,55
VPT-V-400	625 x 210 x 550	115	120 x 120 x 80	400	7,50

Big bag tipper

The flexibility of harvesting with bulk bags in the field also allows for quick reception and unloading in the warehouse of big bags with capacities of up to 1.000 kg.



Model	Lenght (cm)	Max. height (cm)	Unloading height (cm)	Max. Dimensions of the big bags (cm)	Capacity (bag/ hour)	Max. Weight of the bag (Kg)	Power (kW)
VSH-S1000	190	340	110	200 x 90 x 90	Up to 20	1.000	2



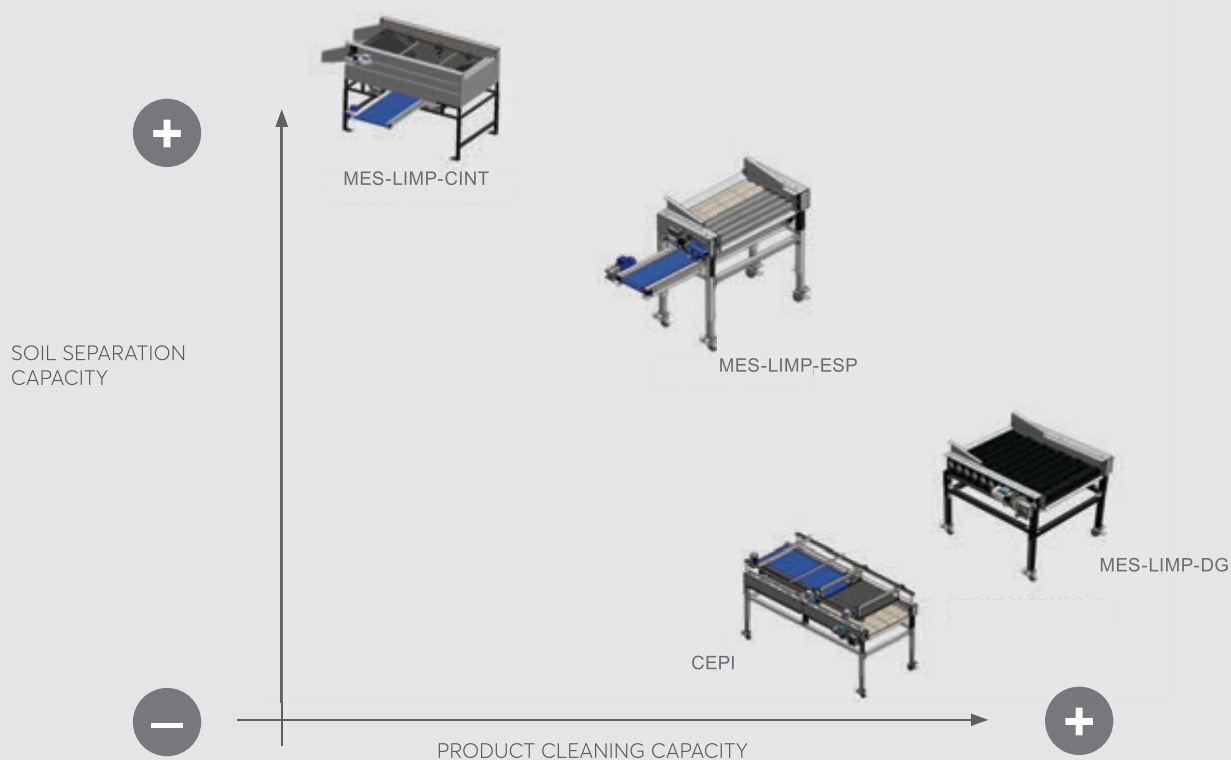
SEPARATION AND CLEANING OF WASTE AND DEBRIS

Stones, clods, weeds and other foreign matter arrive at the warehouse next to the product; **they must be removed quickly and efficiently without damaging the harvested product.**

Broch has developed different cleaning systems **that adapt to each type of residue**, depending on the soil characteristics, the presence of stones, or other elements.

4 CLEANING SOLUTIONS FOR EVERY REQUIREMENT

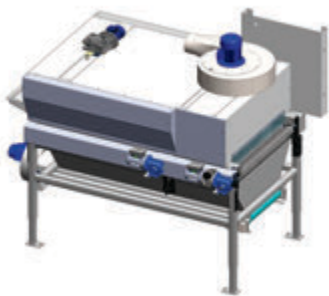
Depending on the type of soil —loose, cloddy, clayey, or sandy— the different solutions, whether independent or combined, ensure effective cleaning of the product and its separation into containers, thus facilitating better drying, grading, and processing.



Model	Dimensions (length x width x height min/max) (cm)	Cleaning surface (cm)	Unloading height min/max (cm)	Soil separation capacity	Product cleaning capacity	Average performance* (kg/h)	Power (kW)
MES-LIMP-CINT	270 x 229 x 180/230	205 x 97	165/215	*****	**	Up to 10.000	1,1
MES-LIMP-ESP-S	70 x 100 x 130/210	70 x 100	102/182	***	***	Up to 10.000	0,75
MES-LIMP-ESP-B	140 x 100 x 130/210	140 x 100	102/187	****	***	Up to 15.000	0,75
MES-LIMP-DG-S	140 x 100 x 130/210	140 x 100	107/187	**	*****	Up to 10.000	0,75
MES-LIMP-DG-B	280 x 100 x 130/210	280 x 100	107/187	**	*****	Up to 15.000	0,75
CEPI-S	140 x 100 x 130/210	140 x 100	105/185	**	****	Up to 10.000	0,75
CEPI-B	280 x 100 x 130/210	280 x 100	105/185	**	****	Up to 15.000	1,5
CEPI-VAR	280 x 100 x 138/218	140 x 100	98/178	**	****	Up to 15.000	2

MUSSI: combined air and rollers

The innovative combined effect of pressurized air with the rotation of rollers and brushes enhances product cleaning, leaving it in a condition very similar to manual processing. A high percentage of the product is ready for packaging, thus optimizing the efficiency of the production line.



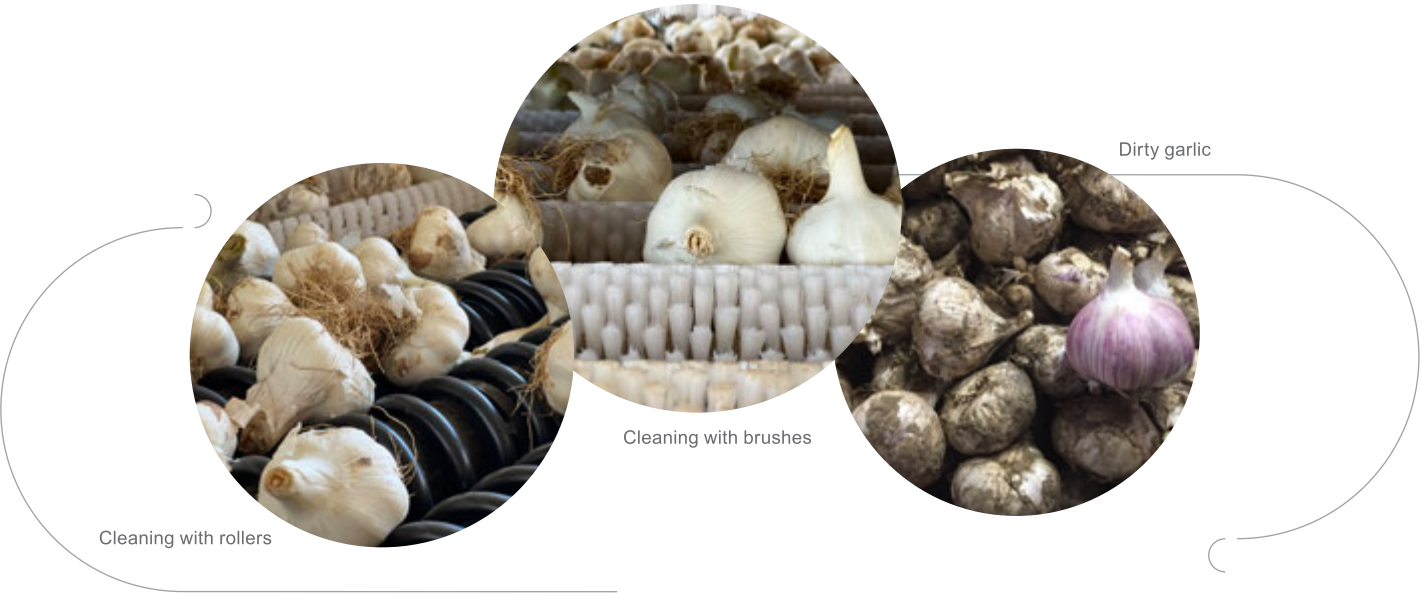
Model	Dimensions (length x width x height min/max) (cm)	Cleaning surface (cm)	Unloading height min/max (cm)	Pressure needs (l/min)	Performance* (kg/h)	Power (kW)
MUSSI1000	280 x 148 x 225/265	200 x 100	115/155	8.000 at 10 bar	Up to 10.000	6

Onion topper

Preparing the product facilitates subsequent processes. Removing stems and irregular parts of the plant facilitates product flow and calibration. An efficient system of vibrating grids and blades shapes the bulbs evenly for a precise calibration.



Model	Dimensions (length x width x height) (cm)	N° of blades	Capacity (kg/h)	Power (kW)
CORTAB	335 x 212 x 215	2	Up to 10.000	7,5





PRODUCT INSPECTION AND SORTING

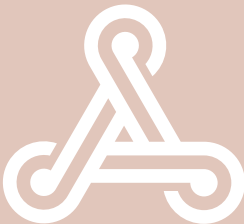
Item-by-item inspection to ensure excellent quality and removal of products that do not meet quality standards. A wide range of modular conveyors is available to adapt to different facility layouts.

Roller inspection table

Inspection and cleaning in a single process. The products are transported on a roller chain that rotates them for a 360° inspection while impurities fall through the rollers. Lower-quality products are manually separated.



Model	Height min/max (cm)	Cleaning surface (cm)	Unloading height min/max (cm)	Average performance (kg/hour)	Power (kW)
MES-LIMP-ROD	130/210	300 x 94	110/190	Up to 10.000	0,75



Inspection conveyors

Wide choice of sizes and configurations

Wide range of sizes from 350 mm to 1.000 mm, with the possibility of combining different modules to achieve greater lengths, providing space for an indefinite number of operators.



Model	Belt width (cm)	Belt lenght (cm)	Height min/max (cm)	Unloading height min/max (cm)	Power (kW)
CS-AM-2000-350	200	35	97,5/160	92,5/155	0,37
CS-AM-2000-600	200	60	97,5/160	92,5/155	0,37
CS-AM-2000-1000	200	100	97,5/160	92,5/155	0,37
CS-AM-3000-350	300	35	97,5/160	92,5/155	0,37
CS-AM-3000-600	300	60	97,5/160	92,5/155	0,37
CS-AM-3000-1000	300	100	97,5/160	92,5/155	0,37

ADJUSTABLE HEIGHT

The support legs are height-adjustable to adapt to different equipment combinations for cleaning or grading. Proper height adjustment enables ergonomic working positions, whether standing or seated.

MULTIPLE ACCESSORIES

MANUAL SEPARATION BY QUALITY, CONDITION OR ANY OTHER CRITERION

Conveyors can be equipped with accessories that make product handling easier and divert flow to different areas for further processing.

WASTE CHANNELLING

SELF-CLEANING INSTALLATIONS

The installation of inspection conveyors combined with waste removal belts, suction systems, and collectors helps keep facilities free from residue build-up, extending operating time and optimising available resources.

Size does matter

Accurate separation of products by size helps supply the market with different sizes and weights according to demand.

JJ Broch has developed an extensive range of mechanical and electronic grading systems that classify the product by size or by weight, with the capability of even packing automatically.

Mechanical graders

An extensive range of mechanical graders with working widths from 900 mm to 1.500 mm, suitable for warehouses with any throughput requirements and ensuring high sizing accuracy.



Model	Classifying element	Unloading height min/max (cm)	Discharge belts Dimensions (width x height) (cm)	Grading surface per module (cm)	Performance (kg/h)	Power per module + final mod. (kW)
BR-CLASIF-M-900	Metal web	92,5/172,5	500 x 900	1,26	Up to 7.000	1,17 + 0,37
BR-CLASIF-M-1200	Metal web	92,5/172,5	500 x 900	1,26	Up to 10.000	1,17 + 0,37
BR-CLASIF-M-1500	Metal web	92,5/172,5	500 x 900	1,26	Up to 12.000	1,3 + 0,37
BR-CLASIF-AR-M-1200	High capacity metal web	92,5/172,5	900 x 900	1,26	Up to 12.000	1,86 + 0,37
BR-CLASIF-AR-M-1500	High capacity metal web	92,5/172,5	900 x 900	1,26	Up to 15.000	2,2 + 0,37
BR-CLASIF-L-900	Rubber web	92,5/172,5	500 x 900	1,26	Up to 5.600	1,17 + 0,37
BR-CLASIF-L-1200	Rubber web	92,5/172,5	500 x 900	1,26	Up to 8.000	1,17 + 0,37
BR-CLASIF-AR-L-900	High capacity rubber web	92,5/172,5	900 x 900	1,26	Up to 7.200	1,87
BR-CLASIF-AR-L-1200	High capacity rubber web	92,5/172,5	900 x 900	1,26	Up to 9.600	1,87

EXCELLENT PRODUCT CARE

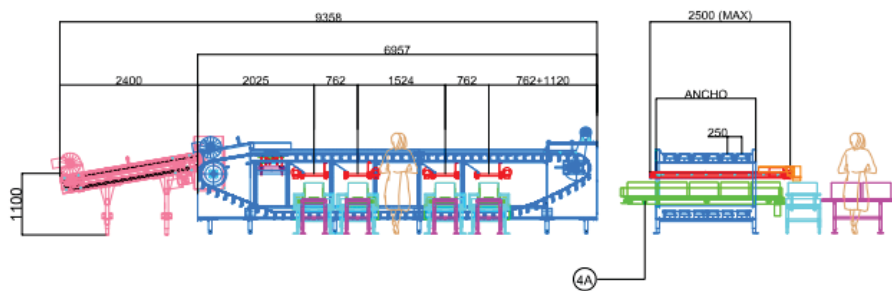


HIGH-PERFORMANCE GRADING WEBS

Electronic graders

Weighing, sizing and counting

Electronic graders perform individual weighing of each product, grouping units of the same weight. Each exit belt can be programmed with different parameters, eliminating the need for component changes.



Model	N° of weighing lines	N° of outlets	Distance between outlets	Performance (kg/h)	Automatic box filling
CLASIF-E-7	3-7	4-15	762	3.000 - 7.000	NO
CLASIF-E-15	3-7	4-15	1.524	3.000 - 7.000	NO
CLASIF-E-7-15	4-6	4-8	762-1.524-762	4.000 - 6.000	YES

INDIVIDUALISATION OF UNITS

The singulator feeding the electronic grader separates the product one by one for precise measurement of individual weight. Accurate weight control then directs each item to units with the same characteristics.



COMBINATION OF ROWS AND EXIT BELTS

The JJ Broch range of electronic graders combines the number of weighing tray rows (from 3 to 7) with the number of available outlets (up to 15), enabling exhaustive and precise grading of up to 10.000 units per working line.





PACKING PREPARATION

The product is ready to be delivered to the market. Different installation solutions prepare the product manually or automatically, adapting to the required packing formats.

Manual processing conveyors

Work centre for multiple operators with centralised product infeed and outfeed. Ensures maximum operator efficiency, high-quality work, and minimal need for support staff.



Model	Lenght (cm)	Width (cm)	Height (cm)	Power (kW)	Weight (kg)
MEMA-4	565	156	150	2,98	891
MEMA-8	765	156	150	2,98	1.239
MEMA-12	965	156	150	2,98	1.587
MEMA-16	1.165	156	150	2,98	1.935
MEMA-20	1.365	156	150	5,35	2.283
MEMA-24	1.565	156	150	5,35	2.630
MEMA-28	1.765	156	150	5,35	2.978

INDEPENDENT WORK AREAS, EVERYTHING WITHIN EASY REACH

Each operator fills their work tray, with access to the empty package, waste outlet, product outlet, and discard container.



Garlic peeler

CONVERSION TO FOURTH-RANGE PEELED GARLIC CLOVES

The Broch range of garlic peelers uses pressurised air to remove the clove’s skin while preserving its integrity for longer shelf life.

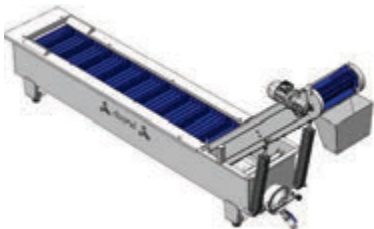
In-line arrangement of the different elements: feeding, peeling, and inspection conveyors.



Model	Feeder dimensions (length x width) (cm)	Peeler dimensions (length x width) (cm)	Width of peeler belt (cm)	Inspection belt dimensions (length x width) (cm)	N.º of injectors	Pressure needs (l/min)	Performance (Kg/hour)*	Power (kW)
LPL-200	195 x 105	210 x 140	20	315 x 70	7	2.000 l at x bar	Up to 200	5,9
LPL-400	195 x 105	210 x 140	40	315 x 70	13	4.200 l at x bar	Up to 400	5,9
LPL-1000	440 x 185	218 x 192	2 x 40	582 x 80	26	8.000 l at x bar	Up to 1.000	7,8

MANUAL INSPECTION, WITH OPTICAL SENSOR OR COMBINED

Through the washer tank and the draining table, the peeled clove undergoes a treatment that improves preservation and extends its shelf life.



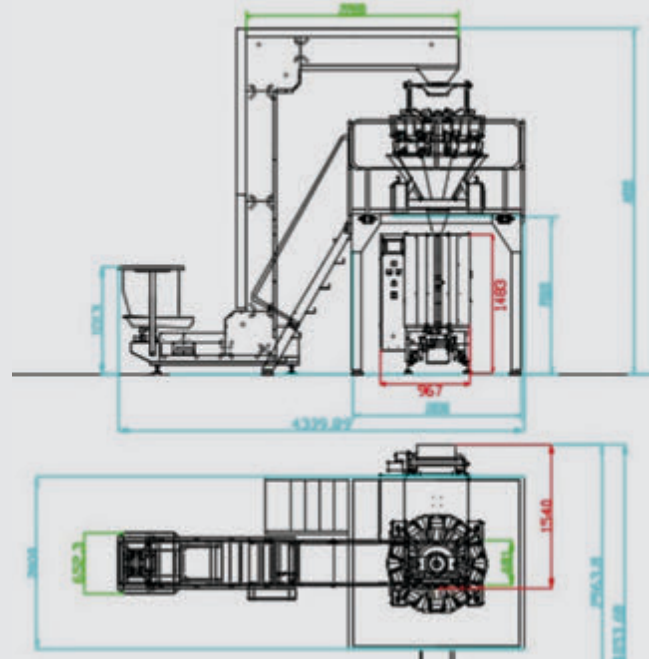
Model	Dimensions (length x width) (cm)	Bath section Surface (cm)	Drain section Surface (cm)	Time of bath (seg)	Volume (l)	Performance (Kg/hour)*	Power (kW)
BALSLAV-B	393 x 77	230 x 40	160 x 40	7,5	700	Up to 400	1,1
BALSLAV-XL	393 x 97	230 x 70	160 x 70	7,5	800	Up to 1.000	1,1



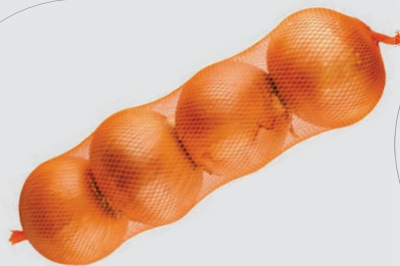
Model	Dimensions (cm) (length x width x height min/max)	Drain surface (cm)	Unloading height min/max (cm)	Air flow (l/min)	Performance (kg/h)*	Fan motors power (kW)	Power (kW)
ESCPEL	300 x 108 x 205/210	300 x 40	132,5/137,5	40.000	Up to 1.000	2,2	4,65
ESCPEL-XL	300 x 138 x 205/210	300 x 60	132,5/137,5	40.000	Up to 1.000	2,2	4,65



PACKING AND MARKET DELIVERY



Product formats in the market vary widely and require different solutions for mechanised packing. From big bag fillers for bulk formats, to unit counters for customised packaging, to automatic weighers that quickly and accurately calculate the exact weight of each package.



A complete range of accessories for professional project installations

Efficiency – Automation – Product care

ALL OUR PRODUCTS ARE MANUFACTURED IN ACCORDANCE WITH THE EUROPEAN STANDARD ON FOOD MACHINERY.





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