

Destemming, Sorting and Crushing



SRAML destemming, sorting and crushing line is a winning combination, enabling intact berry separation from stems, berry selection and accurate crush to release juice or prepare mash for maceration.

With a variety of models and upgrade options to choose from, **SRAML destemming, sorting and crushing enables full flexibility for a gentle and efficient separation of grape berries from the stems, removal of poor berries and release of the grape juice** without the risk of grinding or shearing berry skins or seeds, which is absolutely pivotal to wine quality.

Innovative PVC cage available in different hole sizes, destemming shaft with adjustable rubber tips, variable speed control and a large receiving hopper are but a few of the many features of the **SRAML destemmers**, which can be **upgraded with the SRAML inline sliding crusher** adjustable to the size of the berries, allowing both units to be used either simultaneously or separately.

The **roller sorting table** is the perfect addition to this vinification phase, enabling the selection of healthy whole berries while removing the poor-quality ones, drained juice and material other than grapes.

Destemmers

Destemmer and crusher are essential components of winery equipment, their primary function being to remove the grape berries from the stems and release the juice and pulp from the berries.

By minimizing impact force, SRAML innovative destemming technology ensures that the berries remain whole after the destemming operation.

A high-quality destemmer protects the grape berries and completely removes them from the stems. It has a decisive influence on the level of juice oxidation, phenolic extraction and economic efficiency of the winemaking process.

Equipped with inverter-controlled speed and a polyethylene cage available in holes of different sizes, the SRAML destemmers allow the winemaker to **adjust the machine to the varietal and physiological status of the grape achieving optimal results.**

The SRAML range of destemmers can be used simultaneously with the SRAML inline sliding crusher, which has been upgraded by grooved rollers, a thick layer of rubber and a system for easy distance adjustment, allowing the crushing process to be adjusted to the size of the berries to be popped without risking damage to the berry skins or seeds.

Options

Inline crusher with independent drive allows the machine to operate in 3 different modes:

- **Destemmer and crusher simultaneously**
- **Destemmer only** — an easy slide of the crusher to the back of the machine
- **Crusher only** — when removing the cage and shaft from the destemmer

SRAML destemmer features include:

- Polyethylene cage available in different hole sizes
- Destemmer shaft with soft rubber tips adjustable by length and inclination
- Electronic speed variator to control the cage and shaft rotation
- Easy and fast tool-free (dis)assembly
- Easy access to the interior and surrounding equipment for efficient cleaning and maintenance
- Simple to operate
- Mirror-polished receiving hopper prevents grapes from sticking to the surface
- Upgraded with a feeding screw, the hopper can be adapted to diverse options of grape reception
- The parts in contact with the grapes are lightweight and free of sharp edges or pockets to prevent the grapes and stems from breaking, tearing, or crushing
- Robust and durable framework made of high-quality materials to withstand environment and operating conditions
- Height-adjustable telescopic legs
- Mounted on braked swivel casters to be moved easily around the winery
- Quiet in operation

Features and options of SRAML destemmers

√ Standard supply ○ Optional X Not available

Options	D7	DS7	DSH7	D10	DS10	DSH10	D15	DS15	DSH15	D25	DS25	DS50
Large simple loading hopper without screw	√	X	X	√	X	X	√	X	X	√	X	X
Large loading hopper with independent 0.75 kW drive screw to easily adjust the amount of incoming grape	X	√	√	X	√	√	X	√	√	X	√	√
Adjustable speed of hopper auger	X	√	√	X	√	√	X	√	√	X	√	√
Increased loading hopper (1500 × 1500 mm) to dose grapes from big bins, equipped with independent 0.75 kW drive screw to easily adjust the amount of incoming grape	X	X	√	X	X	√	X	X	√	X	X	X
Polyethylene cage holes	√	√	√	√	√	√	√	√	√	√	√	√
Destemmer shaft with soft rubber tips adjustable in length and incline	√	√	√	√	√	√	√	√	√	√	√	√
Control panel with inverter for destemming shaft speed regulation	√	√	√	√	√	√	√	√	√	√	√	√
Inline sliding crusher with independent drive	○	○	○	○	○	○	○	○	○	○	○	○
Side opening panel allows simple removal of the cage and shaft for easy cleaning	√	√	√	√	√	√	√	√	√	√	√	√
Top panel opening enables easy access and cleaning of the machine's interior	√	√	√	√	√	√	√	√	√	√	√	√
Telescopic legs with wheels	√	√	√	√	√	√	√	√	√	○	○	○
Collection tank with screw	○	○	○	○	○	○	○	○	○	○	○	○
Different sizes: Polyethylene cage	○	○	○	○	○	○	○	○	○	○	○	○
Different sizes: Stainless steel cage	○	○	○	○	○	○	○	○	○	○	○	○

SRAML Sliding crusher

When adding the crushing operation, berries or clusters are squeezed gently between two rubber rollers that can be adjusted to the size of the clusters to avoid grinding of the stems, berry skins or seeds.

SRAML Sliding crusher features include:

- Adjustable distance between the rollers from 2 to 10 mm
- The hopper can be used without the crusher
- The construction mounted on braked swivel casters is easy to move around the winery and sanitize after use
- Easy access to the interior and surrounding equipment for efficient cleaning and maintenance



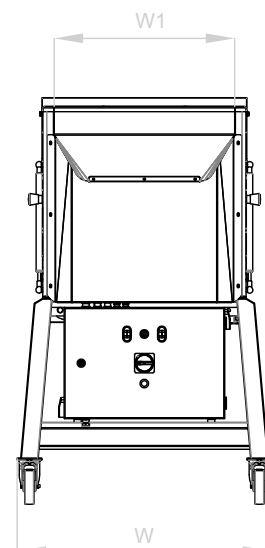
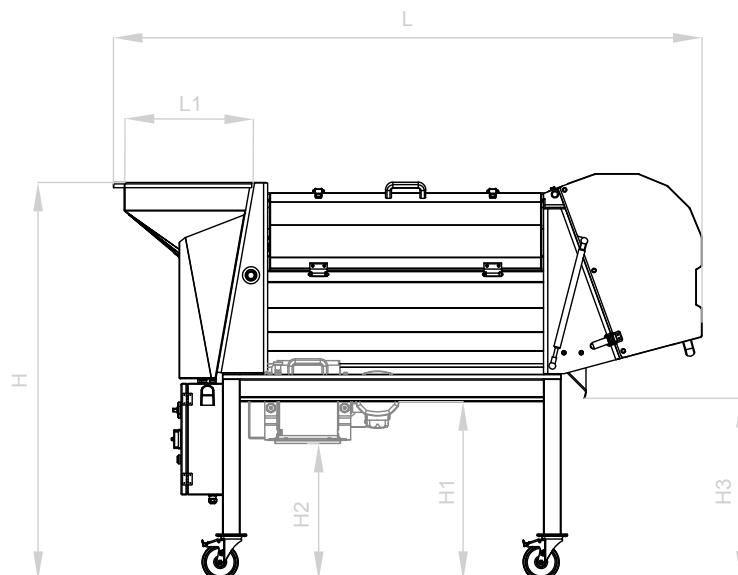
D-type destemmer



Suited for any small to large-size winery where grape is received from crates, or where a uniform grape supply is ensured in addition to a most gentle and efficient separation of grape berries from the stems.



Available with the inline sliding crusher, the SRAML D-type destemmer series is equipped with a loading hopper, perforated PVC cage, length- and inclination-adjustable rubber tips on the destemming shaft and speed-adjusting electronic variator to control the cage and shaft rotation.



Product specifications

Main features

- Large and simple loading hopper without the auger.
- Polyethylene cage holes of 22 mm as standard (mixed 25/22 mm holes as standard with the D25 version). Optionally available also in stainless steel and/or in different sizes.
- Simple variable speed control of the shaft and cage by means of inverter. Cage rotation speed is linearly dependent on the speed of the rotor.
- Destemmer shaft with soft rubber tips adjustable by length and inclination.
- Destemmer cage and shaft rotate in same direction. Shaft speed is 9 times greater than the speed of the cage.
- Made entirely of AISI 304 stainless steel. Telescopic legs on caster wheels allow for easy output-height adjustment.
- Control panel with buttons to start-stop the operation, potentiometer for shaft and cage speed regulation, and emergency stop button.
- Side opening panel allows simple removal of the cage and shaft for easy cleaning.
- Wide top panel opening enables easy access and cleaning of the machine's interior.
- Availability of "extra size" frame on request.

Options

- Inline sliding crusher
- Mass collection tank with screw
- Different machine electrical supply
- Drainage grates at the bottom of the hopper
- Frame on swivel casters without telescopic legs

Polyethylene cages

Models D7, D10 and D15

- Polyethylene cage with holes of $\varnothing$ 18 mm
- Polyethylene cage with holes of $\varnothing$ 22 mm
- Polyethylene cage with holes of $\varnothing$ 30 mm
- Polyethylene cage with mixed holes of $\varnothing$ 22/16 mm

Model D25

- Polyethylene cage with holes of $\varnothing$ 18 mm
- Polyethylene cage with holes of $\varnothing$ 22 mm
- Polyethylene cage with mixed holes of $\varnothing$ 22/18 mm
- Polyethylene cage with mixed holes of $\varnothing$ 25/22 mm
- Polyethylene cage with mixed holes of $\varnothing$ 30/22 mm

Technical data

		D7	D10	D15	D25
Length x Width x Height L x W x H	mm	2150×885×1355	2380×885×1355	2490×985×1505	3150×905×1715
Hopper (L1 x W1)	mm	600 x 700		700 x 700	
Stalks discharge height (H3)	mm	625			750
Berries discharge height (H1/H2)	mm	600/ 460 (+crusher)			720/ 570 (+crusher)
Weight	kg	305/ 350 (+crusher)	365/ 410 (+crusher)	565/ 610 (+crusher)	890/ 950 (+crusher)
Total installed power	kW	1,5/ 2,25 (+crusher)		2,2/ 3,3 (+crusher)	4,75/ 6,95 (+crusher)
Supply voltage		3/N/PE ~ 400/230 V 50 Hz			
Mechanical Protection		IP55			
Capacity	kg/h	6000–7000	8000–12000	13000–15000	25000–30000

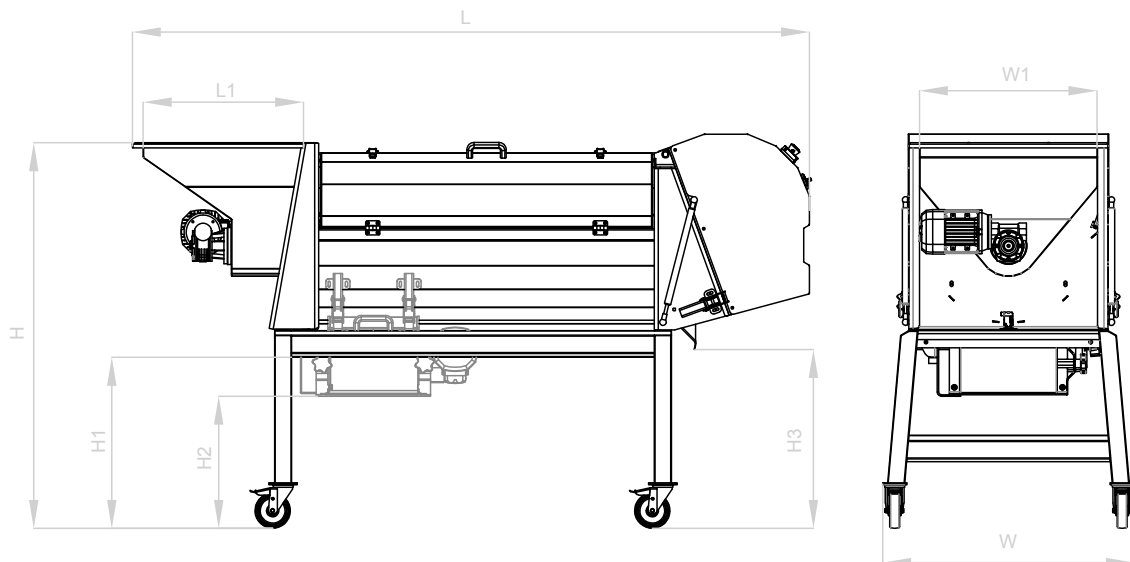
DS-type destemmer



Designed to process small or large quantities of grapes unloaded from belt elevator or grape trailers, the DS-type destemmer, equipped with a hopper auger for a uniform grape supply, ensures a most gentle and efficient separation of grape berries from the stems.



Available with inline sliding crusher, the SRAML DS-type destemmer series features a loading hopper and mechanically controlled auger to feed the grapes into the PVC cage to be stemmed, length- and inclination-adjustable rubber tips on the destemming shaft and electronic speed variator to control the cage and shaft rotation.



Product specifications

Main features

- Large loading hopper with independent auger drive and mechanical speed variator enabling easy adjustment of the incoming grape load.
- Polyethylene cage holes of 22 mm as standard (mixed 25/22 mm holes as standard with the D25 version). Optionally available also in stainless steel and/or in different sizes.
- Simple variable speed control of the shaft and cage by means of inverter. Cage rotation speed is linearly dependent on the speed of the rotor.
- Destemmer shaft with soft rubber tips adjustable by length and inclination.
- Destemmer cage and shaft rotate in same direction.
- Made entirely of AISI 304 stainless steel. Telescopic legs on caster wheels allow for easy output-height adjustment.
- Control panel with buttons to start-stop the operation, potentiometer for shaft and cage speed regulation, and emergency stop button.
- Side opening panel allows simple removal of the cage and shaft for easy cleaning.
- Wide back panel opening enables easy access and cleaning of the machine's interior.

Options

- Inline sliding crusher
- Mass collection tank with screw
- Different machine electrical supply
- Drainage grates at the bottom of the hopper
- Frame on swivel casters without telescopic legs
- Mechanical harvest adjustment: Hopper with draining sieve

Mechanical harvest adjustment:

Hopper with draining sieve

A sieve at the bottom of the intake hopper plays a major role in the reception of mechanically picked grapes. The juice released from grape berries upon reception gets drained at the entrance and is prevented from getting into the cage. Overflow is restrained and the destemmer can run on minimal speed. The juice is not exposed to physical effects of the moving parts and oxygenation as it is collected and fed directly into the pump. The draining sieve is designed to maintain hygiene while being simple to clean.

Polyethylene cages

Models DS7, DS10 and DS15

- Polyethylene cage with holes of $\varnothing$ 18 mm
- Polyethylene cage with holes of $\varnothing$ 22 mm
- Polyethylene cage with holes of $\varnothing$ 30 mm
- Polyethylene cage with mixed holes of $\varnothing$ 22/16 mm

Model DS25

- Polyethylene cage with holes of $\varnothing$ 18 mm
- Polyethylene cage with holes of $\varnothing$ 22 mm
- Polyethylene cage with mixed holes of $\varnothing$ 22/18 mm
- Polyethylene cage with mixed holes of $\varnothing$ 25/22 mm
- Polyethylene cage with mixed holes of $\varnothing$ 30/22 mm

Technical data

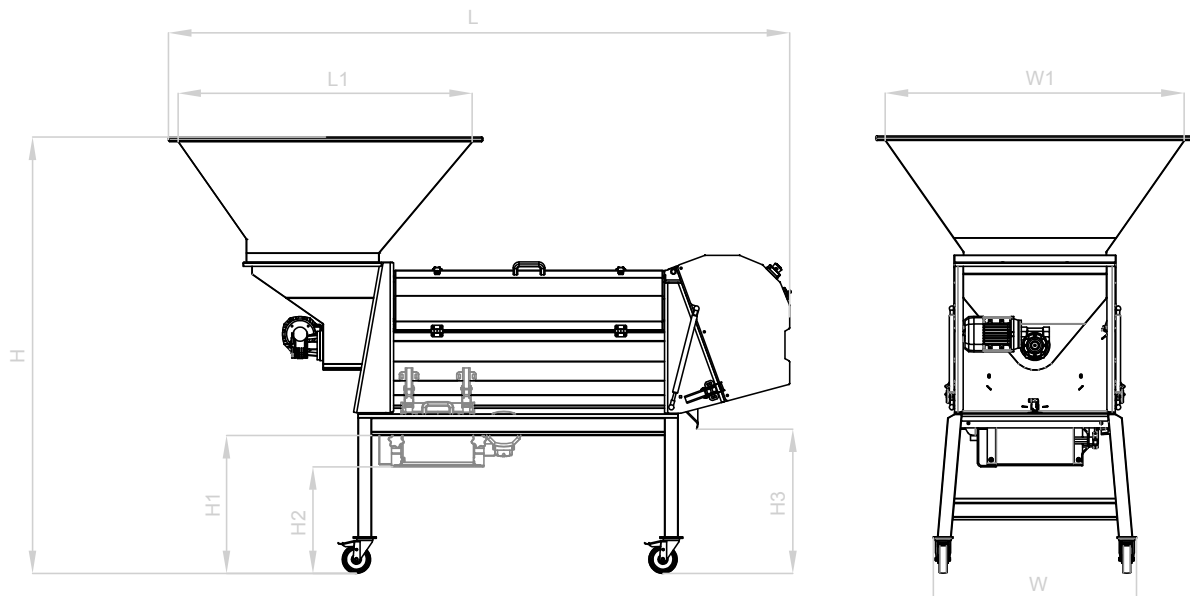
		DS7	DS10	DS15	DS25	DS50
Length x Width x Height L x W x H	mm	2100 x 880 x 1400	2330 x 880 x 1400	2340 x 940 x 1500	2790 x 1095 x 1690	3570 x 1235 x 2310
Hopper (L1 x W1)	mm	600 x 700		600 x 750	700 x 875	900 x 900
Stalks discharge height (H3)	mm	625			700	850
Berries discharge height (H1/H2)	mm	600/ 470 (+crusher)			720/ 560 (+crusher)	820/ 570 (+crusher)
Weight	kg	325/ 370 (+crusher)	385/ 430 (+crusher)	585/ 630 (+crusher)	920/ 980 (+crusher)	1280/ 1480 (+crusher)
Total installed power	kW	2,05/ 2,8 (+crusher)		3,0/ 4,1 (+crusher)	5,85/ 8,05 (+crusher)	8,0/ 11,0 (+crusher)
Supply voltage		3/N/PE ~ 400/230 V 50 Hz				
Mechanical Protection		IP55				
Capacity	kg/h	6000–7000	8000–12000	13000–15000	25000–30000	35000–50000

DSH-type destemmer

Best suited for larger volumes of grapes unloaded directly from bins, bulk containers or other devices handling larger quantities, it ensures a most gentle and efficient separation of grape berries from the stems.



Available with inline sliding crusher, the high-capacity SRAML DSH-type destemmer series is equipped with increased loading hopper and mechanically controlled auger to feed the grapes into the PVC cage to be stemmed, length- and inclination-adjustable rubber tips on the destemming shaft and electronic speed variator to control the cage and shaft rotation.



Product specifications

Main features

- Increased loading hopper (1500 mm × 1500 mm) for dosing grape from big bins with independent auger drive and mechanical speed variator enabling easy adjustment of the incoming grape load.
- Polyethylene cage holes of 22 mm as standard (mixed 25/22 mm holes as standard with the D25 version).
- Simple variable speed control of the shaft and cage by means of inverter. Cage rotation speed is linearly dependent on the speed of the rotor.
- Destemmer shaft with soft rubber tips adjustable by length and inclination.
- Destemmer cage and shaft rotate in same direction.
- Made entirely of AISI 304 stainless steel. Telescopic legs on caster wheels allow for easy output-height adjustment.
- Control panel with buttons to start-stop the operation, potentiometer for shaft and cage speed regulation, and emergency stop button.
- Side opening panel allows simple removal of the cage and shaft for easy cleaning.
- Wide back panel opening enables easy access and cleaning of the machine's interior.

Options

- Inline sliding crusher
- Mass collection tank with screw
- Different machine electrical supply
- Drainage grates at the bottom of the hopper
- Frame on swivel casters without telescopic legs

Technical data

		DSH7	DSH10	DSH15
Length x Width x Height L x W x H	mm	2570 × 1500 × 2100	2800 × 1500 × 2100	2910 × 1500 × 2250
Hopper (L1 × W1)	mm	1500 × 1500		
Stalks discharge height (H3)	mm	625		
Berries discharge height (H1/H2)	mm	600/ 460 (+crusher)		
Weight	kg	525/ 570 (+crusher)	585/ 630 (+crusher)	785/ 830 (+crusher)
Total installed power	kW	2,05/ 2,8 (+crusher)		3,0/ 4,1 (+crusher)
Supply voltage		3/N/PE ~ 400/230 V 50 Hz		
Mechanical Protection		IP55		
Capacity	kg/h	6000–7000	8000–12000	13000–15000

Roller Sorting Table



Installed directly under the destemmer, it enables the selection of healthy whole berries, while juice and weak berries are separated at the entrance to the sorting table.



The SRAML RST range of roller sorting tables receives the destemmed berries for further sorting, allowing the winemaker to gently remove foreign material and select the berries by their quality.

With adjustable spacing between the two series of rollers, it is possible to select berries of different varieties according to the size. While berries fall into the collector, leaves, stalks and other foreign material are transferred away.

Its heavy-duty stainless-steel frame is mounted on telescopic legs with caster wheels to be easily adjusted to any environment and operating condition.

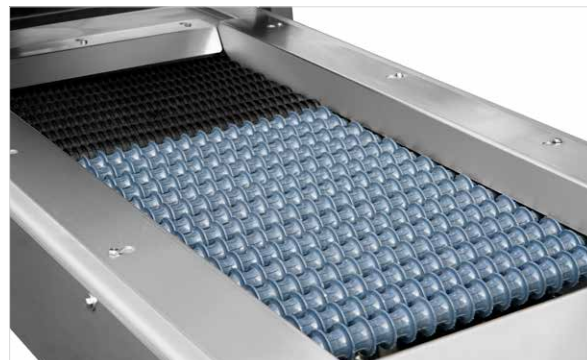
Product specifications

Main features

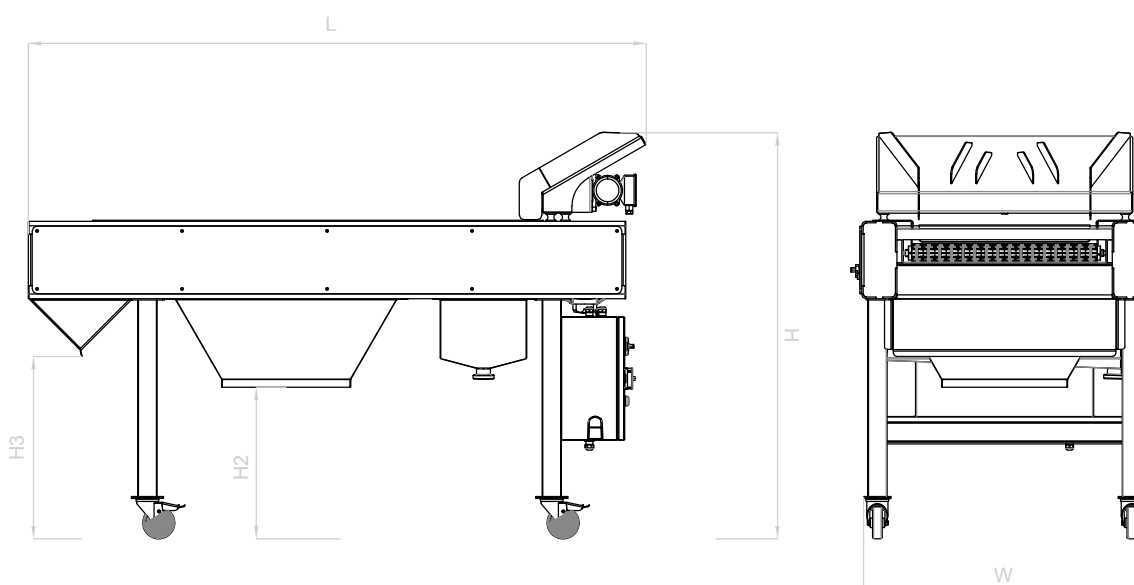
- Sorting is achieved by adjustable speed of rollers in two sections. Specially shaped rollers enable the elimination of all foreign bodies such as stalks, leaves and fragments of stems, which are not desirable in the further processing of grapes.
- Rolling sorting table separates stems, low quality and high-quality berries. Distance between the rollers is easily adjusted with central key.
- The vibrating dosing chute ensures even and diffuse dosing onto the roller sorting table for maximum sorting efficiency.
- In the first part, the sorting table is assembled from 9 set of rollers that allow the discharge of smaller berries, bits and small-size waste.
- Specially designed 17 sets of rollers in the second section of the table ensure the passage of grape berries between the rollers into the lower part, while the stalks and leaves are transported towards waste exit.
- The distance between the rollers in the second section is centrally adjustable between 16 and 24 mm and can be adjusted according to the specific needs and different types of grapes.
- Made entirely of AISI 304 stainless steel. Telescopic legs on caster wheels allow for easy output-height adjustment.
- Control panel with buttons to start-stop the operation; rolling table with speed regulation.
- Easy-opening side panel allows easy cleaning. The rollers are easy to disassemble.
- Wide top panel opening enables easy access and cleaning of the machine's interior.

SRAML Roller sorting table features include:

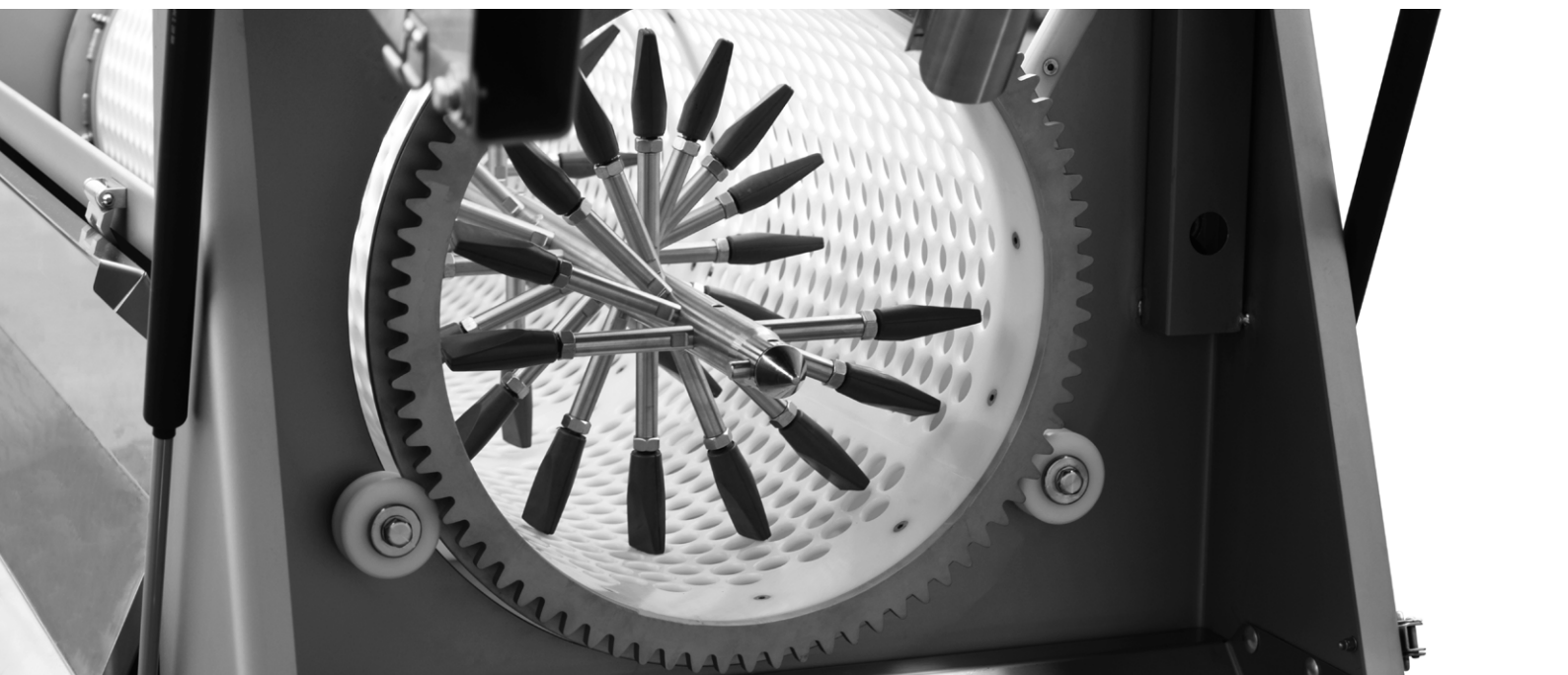
- The vibrating dosing chute ensures even and diffuse dosing for maximum sorting efficiency
- Adjustable roller speed
- Equipped with a collection tray placed below each section
- Simple to operate
- Easy roller (dis)assembly
- Easy access to the interior and surrounding equipment for efficient cleaning and maintenance



Technical data



		RST15	RST25
Length x Width x Height L x W x H	mm	1850 x 850 x 1070	1850 x 1150 x 1070
Berries discharge height (H1)	mm	471	
Waste discharge height (H2)		567	
Weight	kg	305	
Total installed power	kW	0,75	
Supply voltage		3/N/PE ~ 400/230 V 50 Hz	
Mechanical Protection		IP55	
Capacity	kg/h	13000–15000	25000–30000



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