



made by Scharfenberger

SYSTEMS

GRAPE PROCESSING

english

GRAPE RECEIVING HOPPERS

WITH SCREW DISCHARGE



With extensive expertise and many years of experience, we develop grape receiving hoppers precisely tailored to your requirements and on-site conditions – whether installed above ground or recessed. Based on the required capacity and structural conditions, we develop customized solutions that ensure particularly gentle grape reception and onward conveying. Hygiene and occupational safety standards are consistently taken into account. The well-engineered design and precise manufacturing also ensure that the system is easy and efficient to clean.

STANDARD EQUIPMENT

- High-quality, corrosion-resistant and durable stainless-steel construction
- Pre-draining chamber with cleaning opening
- Frequency-controlled drive motor for the dosing screw
- Liquid-tight flap valve

OPTIONS

- Weight measurement using a weighing system (load-cell system)
- Pre-draining chamber with cleaning opening
- Hydraulic assist for the loading ramp



FURTHER MODEL VARIANTS

- Tiltable grape reception hoppers with vibrating discharge
Height-adjustable and/or tiltable
- Mobile grape reception hoppers

SAFE PROCESSES FROM DELIVERY TO FURTHER CONVEYING

Although there is no such thing as a “universal grape receiving hopper”, these systems generally consist of a receiving hopper, a dosing screw with a liquid-tight shut-off flap at the end of the screw, and a pre-draining screen with a juice chamber and integrated cleaning flap.

For systems into which entire grape trailers or transport wagons are unloaded, special tailgate lifting aids with integrated safety guards ensure maximum safety. They prevent personal injury and protect both the vehicles and the receiving hopper from damage.



MASH DISTRIBUTION SCREW



In larger wineries with mash storage or fermentation tanks positioned at a higher level, mash distribution screw conveyors enable fast, precise and reliable feeding of the presses. Each system is individually designed and adapted to the specific on-site conditions. A key component is the liquid-tight, pneumatically operated sliding gate with an integrated feed hopper, which ensures controlled and uniform distribution of the mash. Manufactured from high-quality stainless steel and engineered down to the finest detail, these systems combine a long service life and reliable operation with maximum process efficiency.

DESTEMMER EA 05 - EA 90



The destemming machines EA stand for excellent, particularly gentle destemming technology. Thanks to frequency-controlled drives, the destemming process can be precisely adjusted to the grape variety and degree of ripeness.

The eccentric positioning of the shaft inside the destemming basket ensures uniform conveying of the grape clusters and gentle separation of the berries. This results in a clean destemming process with a minimal proportion of unwanted material. The destemming basket and the shaft can be removed without tools, enabling quick and efficient cleaning.

STANDARD EQUIPMENT

- High-quality, corrosion-resistant and durable stainless-steel construction
- Pre-juicing in the feed hopper
- Frequency-controlled feed screw
- Frequency-controlled drive for basket and shaft
- Synchronous operation of the destemming basket and shaft
- Stainless steel basket electropolished with perforation 25/22 or 18/22
- Clear touch display with memory function
- Basic model with fixed feet with a ground clearance of 850 mm



THE KEY TO PRECISION DESTEMMING



OPTIONS

- Height adjustable underframe in stainless steel for a ground clearance of 850-1,300 mm or 1,300-1,600 mm
- Large feed hoppers as a clamp- on attachment for standard hoppers
- Large infeed hopper with extension of auger
- Additional stainless steel or polyethylene basket with different perforation patterns
- Movable crusher
- Cleaning system for destemmer

Model		EA05	EA12	EA22	EA50	EA70	EA90
Capacity t/h *		3-7 t/h	8-14 t/h	15-25 t/h	25-50 t/h	50-70 t/h	70-90 t/h
Power (kW)	Destemming basket/shaft	1,1	2,2	4,0	7,5	7,5	15
	Feeding auger	0,55	0,55	1,1	1,1	1,5	1,5
	Crusher	1,5	1,5	1,5	2,2	3,0	5,5
Dimensions	Length (mm)	2,320	2,640	2,905	3,800	4,000	4,200
	Width (mm)	990	1,105	1,140	1,510	1,600	1,700
	Height (mm)	1,905	2,050	2,115	2,415	2,500	2,800

* depending on the variety and quality of the grapes



Large infeed hopper with extension of auger (option)



Destemming baskets with different perforations in stainless steel or polyethylene

DESTEMMER EA 05-S • EA 12-S • EA 22-S

PREMIUM TECHNOLOGY FOR THE HIGHEST DEMANDS

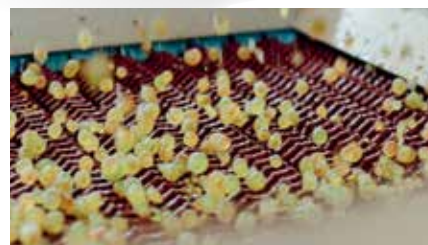
Building on the advantages of the EA destemming machines, the EA-S model features an additional roller sorting table positioned downstream of the destemming process. This reliably removes unwanted material such as insects, stem fragments, leaves and leaf stems. The roller sorter, positioned beneath the destemming basket, initially receives the grapes via a closed roller profile before they enter the adjustable sorting section.

The spacing of the open and closed rollers can be adjusted from 15×29 mm up to a maximum of 24×29 mm.



STANDARD EQUIPMENT

- Various adjustable rotational speeds for feed screw, basket, shaft and roller sorter
- Roller sorter frequency-controlled and adjustable
- Closed rollers adjustable in spacing over the entire discharge length of the basket
- The spacing between the open rollers can be continuously adjusted during operation
- Height-adjustable underframe in stainless steel for a ground clearance adjustable from 620 to 1,060 mm



THE FOUNDATION FOR WINES OF THE HIGHEST QUALITY STANDARDS

INTEGRATED ROLLER SORTING TABLE

Designed for the mechanical separation of unwanted material such as insects, stalk fragments, leaves, and small, unripe berries. Positioned directly beneath the destemming basket, the berries first pass over largely closed roller profiles, separating out free-run juice, seeds, and fine particles. In the subsequent open roller section, stem fragments, leaves and leaf stalks are reliably removed.

The spacing between the roller profiles and the roller speed can be adjusted independently and continuously during operation, from 15 × 29 mm up to a maximum of 24 × 29 mm.

BRUSH ROLLER

For effective solid-liquid separation of the discharged material; positioned below the first sorting section.

FREQUENCY-CONTROLLED INDIVIDUAL DRIVES

All drives, feed screw, destemming basket, destemming shaft and roller sorter, can be controlled separately via frequency converters. Their rotational speed can be individually and precisely adjusted to the specific grape material.

GENTLE TRANSFER

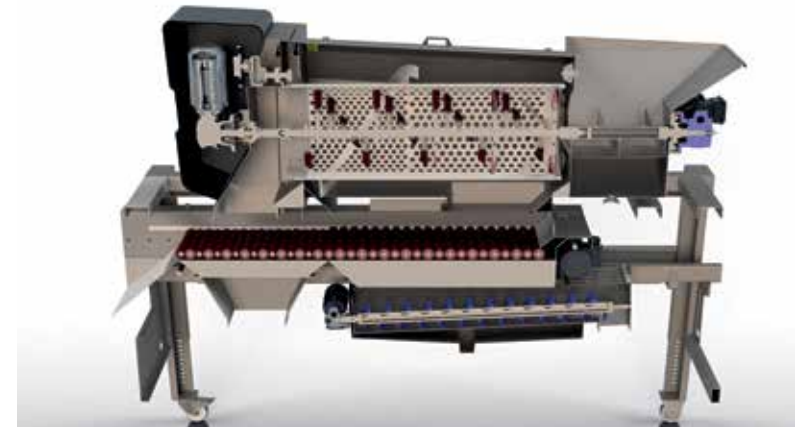
Guiding plates on the inside of the destemming drum, positioned directly behind the intake auger and replacing the carrying fingers of the destemming shaft, reduce throughput capacity but ensure an especially gentle transfer of the grapes into the destemming area.

HIGH-QUALITY POLYETHYLENE DESTEMMING BASKET

The premium EA-S series was designed to preserve the integrity of the grapes and is therefore equipped exclusively with destemming baskets made of food-grade polyethylene.

QUALITY OVER THROUGHPUT

The premium destemmers in the EA-S series are designed for the highest quality standards. Their focus is on producing perfectly destemmed, cleanly sorted and completely intact grape berries, the ideal foundation for outstanding premium wines.



Schematic overview of the functional areas

TIP

Excellent destemming results are achieved particularly with cool grapes that are fed evenly into the destemming machine.

Model		EA05-S	EA12-S	EA22-S
Capacity t/h *		1-3 t/h	3-6 t/h	6-9 t/h
Power (kW)	Destemming basket	0.75	0.75	1.1
	Destemming shaft	1.1	2.2	4.0
	Feeding auger	0.55	0.55	1.1
	Roller sorter	0.9	0.9	0.9
Dimensions	Length (mm)	3,250	3,250	3,300
	Width (mm)	1,500	1,500	1,700
	Height (mm)	2,050	2,170	2,250

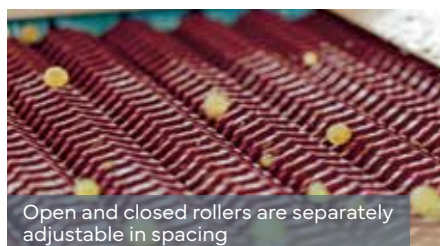
* depending on the variety and quality of the grapes

ROLLER SORTER STAND-ALONE RSS

A high-precision roller sorter for the fine cleaning and sorting of grape berries after the destemming. A specially designed feed hopper distributes the berries evenly across the entire width of the sorting table. The berries first pass over largely closed roller profiles, where free-run juice is separated. They then move onto open roller profiles that reliably remove unwanted material such as insects, fragments of stems and leaves, and parts of the rachis. The roller spacing can be continuously adjusted from 15 × 29 mm up to a maximum of 24 × 29 mm, allowing the sorting process to be precisely tailored to the grapes being processed.

STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Rollers made out of food-grade material
- Frequency-controlled and adjustable
- Height adjustable underframe in stainless steel
- Four directional wheels, two with brakes



Model		RSS 10	RSS 40
Capacity t/h *		6 t/h	20 t/h
Power (kW)	Roller sorter	0.9	0.9
Dimensions table	Length (mm)	1,700	2,600
	Width (mm)	1,050	1,450
	Height (mm)	250	280

* depending on the variety and quality of the grapes

GRAPE SELECTION BELT TS

The grape selection belt TS is designed for the manual sorting of whole grapes or destemmed berries. Its robust stainless steel construction ensures durability and hygienic operation. Grape bins can be emptied easily and safely via the hopper. Two integrated sorting chutes, one on each side, allow for the efficient removal and reliable collection of unwanted material. The belt speed can be continuously adjusted to suit the sorting process, ensuring comfortable, ergonomic working conditions as well as a steady, controlled feed to the grape crusher.



STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Food-grade sorting belt
- Frequency-controlled and adjustable
- Quick-clamping device for conveyor belt
- Four directional wheels, two with brakes
- Sorting chutes on both sides for efficient removal of reject material

Technical data	TS
Capacity t/h *	approx. 5-10 t/h
Length:	3,000 mm 4,000 mm 5,000 mm
Belt Width	600 mm 800 mm
Feed hopper	920 x 740 x 300 mm

* depending on the variety and quality of the grapes



VIBRATING DOSING TABLE VM

The vibrating dosing table is equipped with a large-capacity hopper and is suitable for tipping and precisely dosing grapes. The dosing table enables continuous feeding into a destemmer or grape crusher, as well as the uniform feeding of singulated grapes into an optical sorting system, such as the ESOS 800 AI.

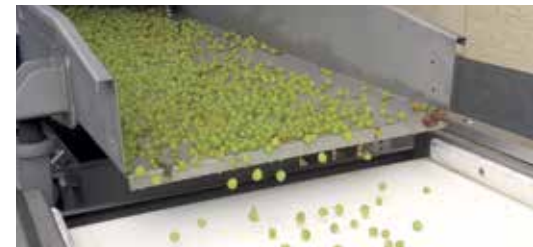


STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Vibration discharge
- Driven by two frequency-controlled unbalanced motors
- Four casters (two with brakes)
- Easy to clean

Model		VM 2.0	VM 2.6
Capacity t/h *		5-7 t/h	5-7 t/h
Volume of hopper	Liter	275	360
Dimensions	Total length (mm)	2,518	3,020
	Width (mm)	1,590	1,590
	Working table height (mm)	975	975

* depending on the variety and quality of the grapes



VIBRATION SORTING TABLE VS

The vibrating sorting table VS features a high-capacity hopper and enables the continuous, exceptionally gentle feeding of whole grapes into destemmers or crushers. The extended sorting table, equipped with a pre-juicing section and sorting chutes on both sides, ensures clean and efficient separation. It is also ideally suited for the gentle singulation of grapes and for the uniform feeding of optical sorting systems, such as the ESOS 800 AI. Its well-engineered design allows for quick and thorough cleaning, while the robust stainless-steel construction ensures durability and reliable performance.

STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Vibrating discharge
- Driven by two frequency-controlled unbalanced motors
- Pre-juicing section
- Large infill hopper
- Sorting chutes for foreign particles on both sides
- Four casters (two with brakes)
- Easy to clean

OPTIONS

- Dejuicing screen for separating insects, grape seeds, or oxidized juice



Model		VS 2.6	VS 3.6	VS 5.0
Capacity t/h *		5-10 t/h	5-10 t/h	5-10 t/h
Infill hopper	Length x Width (mm)	1,600 x 1,400	1,990 x 1,960	1,990 x 1,960
Dimensions	Total length (mm)	2,790	3,705	5,115
	Work table width (mm)	600	600	600
	Work table height (mm)	1,020	1,020	1,050

* depending on the variety and quality of the grapes

WHOLE CLUSTER TRANSPORT BELT FB

The grape conveyor belts FB are designed for the gentle and reliable transport of whole grapes and destemmed berries. Thanks to a design that facilitates easy cleaning, they can also transport grape mash without difficulty. The easy-release mechanism simplifies cleaning and allows the belt to be quickly tensioned down during the off-season.

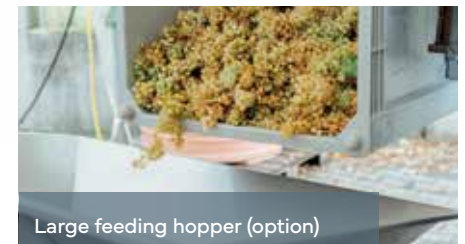


STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Food-grade conveyor belt and components in compliance with EU10/2011 and EG1935/2004
- Hydraulically height-adjustable
- Belt tensioning device
- Standard hopper for uniform feeding
- Four casters (two with brakes)
- Residual drain nozzles DN 50
- Quick-release device of belt for easy cleaning

OPTIONS

- Large feeding hoppers in various sizes
- Various attachments for standard feeding hopper
- Grape crusher for further processing
- Swiveling chute directs output flexibly in the desired direction
- Cleaning system
- Height adjustable with hydraulic piston



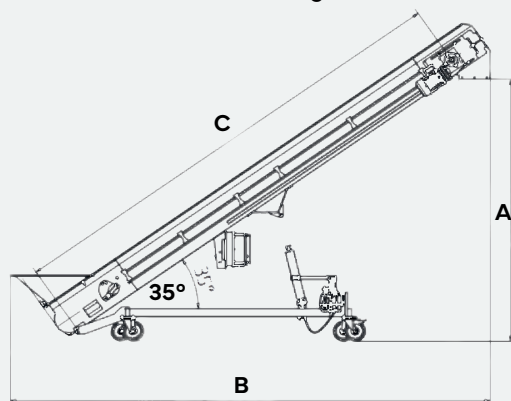
Large feeding hopper (option)



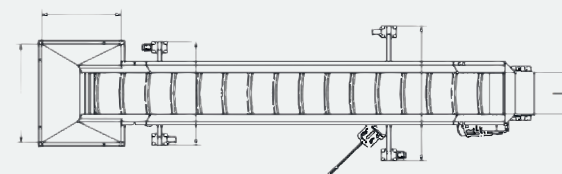
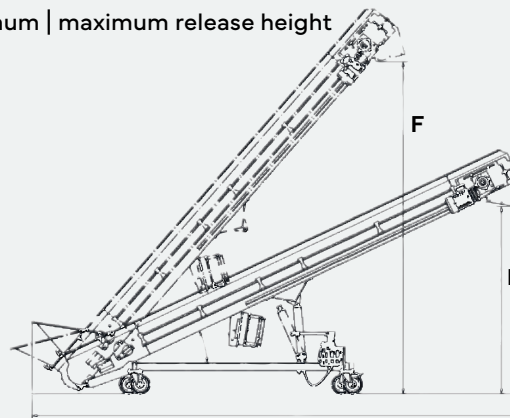
Swiveling chute (option)

FLEXIBLE AND EASY HEIGHT ADJUSTMENT

At a minimum inclination angle of 35°



minimum | maximum release height



DIMENSIONS

Model	Belt Width (mm)	A (mm)	B (mm)	C (mm)	E (mm)/H-min	F (mm)/H-max
FB 40/17	400	1,751	3,400	3,000	1,578	2,107
FB 40/22	400	2,324	4,219	4,000	1,736	3,081
FB 40/25	400	2,612	4,629	4,500	1,955	3,463
FB 40/28	400	2,898	5,038	5,000	2,174	3,843
FB 40/34	400	3,472	5,857	6,000	2,340	4,093
FB 40/40	400	4,045	6,676	7,000	3,194	5,174
FB 40/50	400	4,619	7,495	8,000	3,260	5,360

We reserve the right to make technical changes for improvement at any time.

OPTICAL SORTING MACHINE ESOS AI

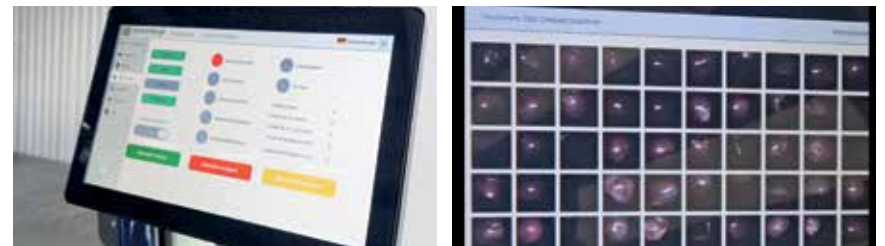
HIGH-PRECISION AI SORTING FOR GRAPE BERRIES – THE FOUNDATION FOR PREMIUM WINES

AI-powered, high-precision sorting technology with adaptive analysis delivers accurate and reliable sorting results in real time. Image capture takes place in „free flight“ directly at the end of the conveyor belt, eliminating disturbances caused by acceleration and singulation belts. The extremely short recognition time requires high-performance data processing, which is ensured by the following advanced technical components.



REPRODUCIBLE PRECISION YOU CAN RELY ON

- Centrally integrated 4K line-scan camera (4,096 × 1 pixels) with a line rate of 12.3 kHz at 3 m/s (12,300 lines/s) for high-resolution, real-time detection
- Focused LED line illumination with specialized high-performance optics, immune to ambient light (daylight and artificial light)
- Detection in the visible RGB spectral range
- Precise object detection based on shape, structure, color, and contour
- High-performance processor with AI-based analysis (up to 23 MB/s) and a processing time of < 0.4 ms
- 160 precision air nozzles, controlled in pairs and individually via 80 high-speed valves for maximum sorting selectivity



SORTING PRECISION THAT SETS NEW STANDARDS



STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Four swivel casters as standard, two with locking brakes
- Variable height adjustment
- Acceleration conveyor belt for optimal product singulation
- Open machine design with easily accessible cleaning hatches
- Scraper for continuous removal of adhering product residues
- Pull-out juice tray with DN 50 connection

OPTIONS

- Cross auger for the discharge of sorted-out material
- Precision levelling system



Technical data	ESOS 800 AI
Capacity t/h *	approx. 8-15 t/h
Single nozzles	160 on a 5 mm grid
Resolution line scan camera	4 K
Belt Width	ca. 800 mm
Belt Length	ca. 2,500 mm
Belt Speed	ca. 3 m/s
Compressed Air	approx. 400 l/min at 6 bar
Connection	400 V / 50 Hz (3-phase)

* depending on the variety and quality of the grapes

Dimensions	ESOS 800 AI
Machine width	approx. 1,390 mm
Machine width with optional discharge auger	approx. 1,615 mm
Machine length	approx. 3,150 mm
Infeed conveyor height	approx. 1,130 mm *
Discharge height for premium material	approx. 830 mm *
Discharge height - rejects	approx. 630 mm *
Machine height	approx. 2,115 mm *
Weight	approx. 900 kg

* + 350 mm adjustment range

GRAPE CRUSHER TM

THE PERFECT COMBINATION

The TM grape crusher ensures the efficient and gentle crushing of whole or destemmed grapes. Two food-grade rubber rollers arranged in a clover-leaf pattern gently crush the berries without damaging seeds or stems. Thanks to its compact design and low weight, the crusher can be flexibly integrated into the EA destemmer, or mounted on the FB conveyor belt, or installed at the inlet hopper of the EUROPRESS grape press. An optional sliding mechanism allows the crushing process to be quickly engaged or disengaged as needed. Its well-engineered design and carefully selected materials also ensure quick, thorough, and hygienic cleaning.

STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Food-grade rubber crusher rollers
- Easy assembly and disassembly
- Low weight
- Easy to clean
- Can be mounted to the destemmer EA, whole cluster conveyor or feed hopper on the EUROPRESS grape press (option)

Model	TM-400 L	TM-500 L	TM-700 L
Capacity t/h *	3-60 t/h	3-60 t/h	3-60 t/h
Roller Width	400 mm	500 mm	700 mm

* depending on the variety and quality of the grapes



STEM SHREDDER

ROBUST AND POWERFUL

Our robust, high-performance stem shredders ensure the efficient processing of grape stalks, stems, and leaves, significantly reducing the volume of green waste. The shredded material can be transported cleanly using trough screw conveyors, providing a reliable alternative to conventional conveyor belts. The machine housing and blade shaft are constructed from high-quality, durable stainless steel, ensuring long-lasting performance even under demanding operating conditions.



STANDARD EQUIPMENT

- Adjustable speed of the shredder shaft
- Drive power: 4,0 kW | 400V | 50Hz
- Easy to clean



POMACE TIPPING TRAY TK

THE ESSENTIAL ASSISTANT

The mobile pomace tipping tray is made entirely of stainless steel. Four swivel castors allow for easy and flexible positioning beneath the press. Integrated forklift pockets and the tipping mechanism ensure convenient handling and fast, safe emptying. A hydraulic tipping system is also available as an option.



Model	TK 8	TK 13
Capacity (l)	760	1.300
Overall height (mm)	440	640
Tray dimensions (mm)	1,800 x 1,600	1,800 x 1,600
Empty weight (kg)	232	327

* depending on the variety and quality of the grapes

OPTIONS

- Hydraulic tipping mechanism

LATERAL AUGER WITH INCLINATION

Our cross and vertical pomace screw conveyors have a discharge height of approx. 2,000–3,000 mm. They are ideally suited for presses with capacities of up to around 6,500 litres, with either central or side pomace discharge. Thanks to their mobile base frame, they can be used flexibly across multiple presses. This makes them ideal for loading pomace directly onto trailers or other transport units.



STANDARD EQUIPMENT

- High-quality and durable stainless-steel construction
- Generously dimensioned feed hopper
- Screw diameter of 250 mm or 300 mm, depending on press size
- Mobile wheeled base frame
- Grating cover on the inclined U-shaped trough
- Standard discharge height: 2,500 mm

OPTIONS

- +/- 500 mm increase or decrease in discharge height

CUSTOM POMACE CONVEYING SYSTEMS

Our extensive experience in designing and manufacturing pomace screw conveyors goes into every customized pomace handling solution. The focus is on process safety, operator safety and efficient cleaning of presses and conveying systems. This ensures maximum system availability. Parallel operations are easily possible. For example, one press can be cleaned while another is being emptied. Our sliding hoppers set new standards in safe and efficient pomace handling. Their straightforward design and ease of use ensure maximum safety and efficiency.



A manually movable hopper is mounted on the trough screw conveyor beneath the presses. It can be moved lengthwise and is equipped with safety rails. A sliding mesh cover ensures that the pomace screw conveyor remains safely covered at all times. The press can be accessed when the door is lowered and the hopper is moved to the side. For safety, the hopper can be secured in two positions using locking pins.

STANDARD EQUIPMENT

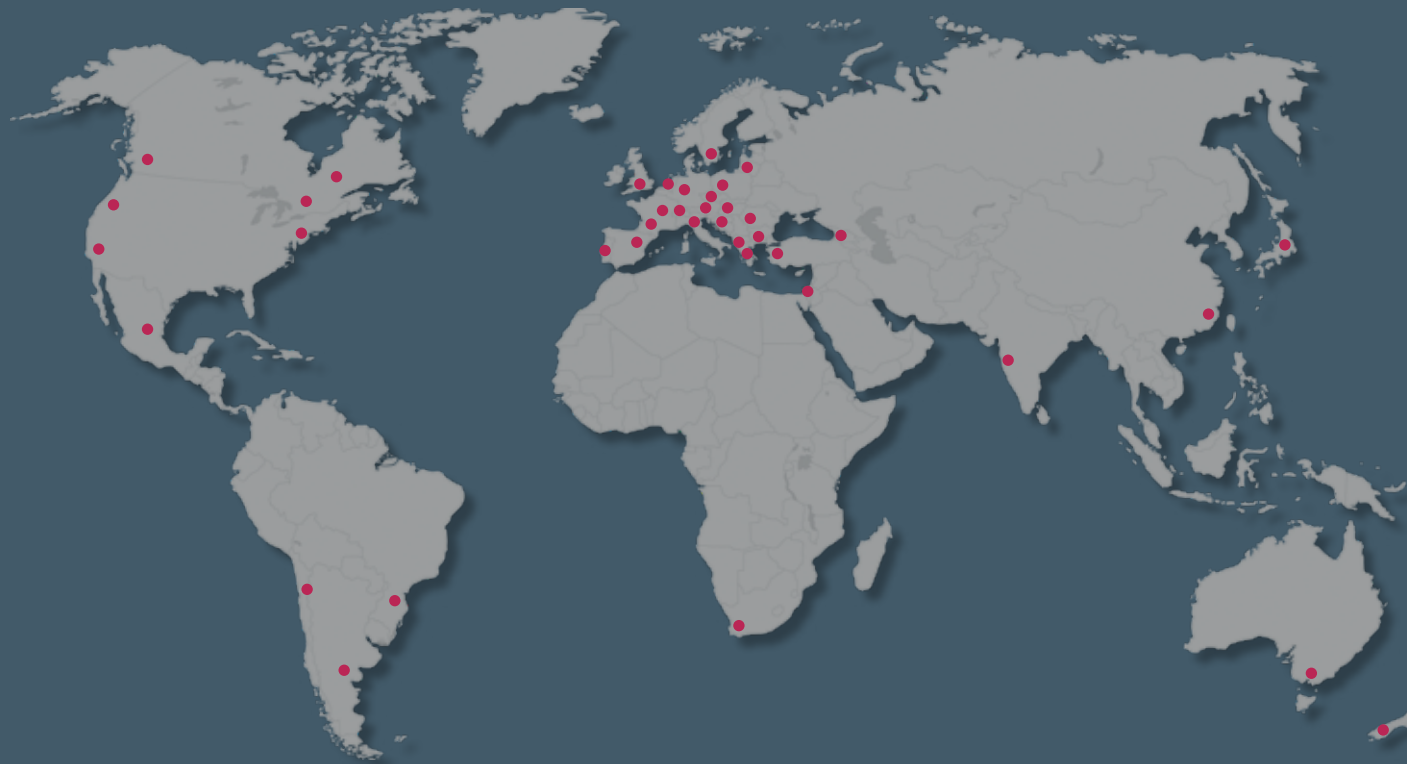
- High-quality and durable stainless-steel construction
- Sliding hopper beneath each press
- Transfer hopper
- Cleaning and drainage connection

OPTIONS

- Drainage screen and connection



SCHARFENBERGER WORLDWIDE



Canada	Bulgaria
USA	Romania
Mexico	Serbia
Chile	Croatia
Argentina	Slovenia
Uruguay	Hungary
United Kingdom	Slovakia
Sweden	Czech Republic
Denmark	Poland
Netherlands	Ukraine
Belgium	Moldova
Luxembourg	Israel
France	Georgia
Spain	Russia
Portugal	South Africa
Germany	India
Switzerland	China
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Italy	Australia
Greece	New Zealand
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Albania	
Armenia	



DIN EN ISO 9001:2015 DGR 2014/68/EU

We reserve the right to make technical changes
without prior notice.



Scharfenberger GmbH & Co. KG | Philipp-Krämer-Ring 30 | D-67098 Bad Dürkheim | Phone +49 (0)6322 6002-0 | info@scharfenberger.de | www.scharfenberger.de

