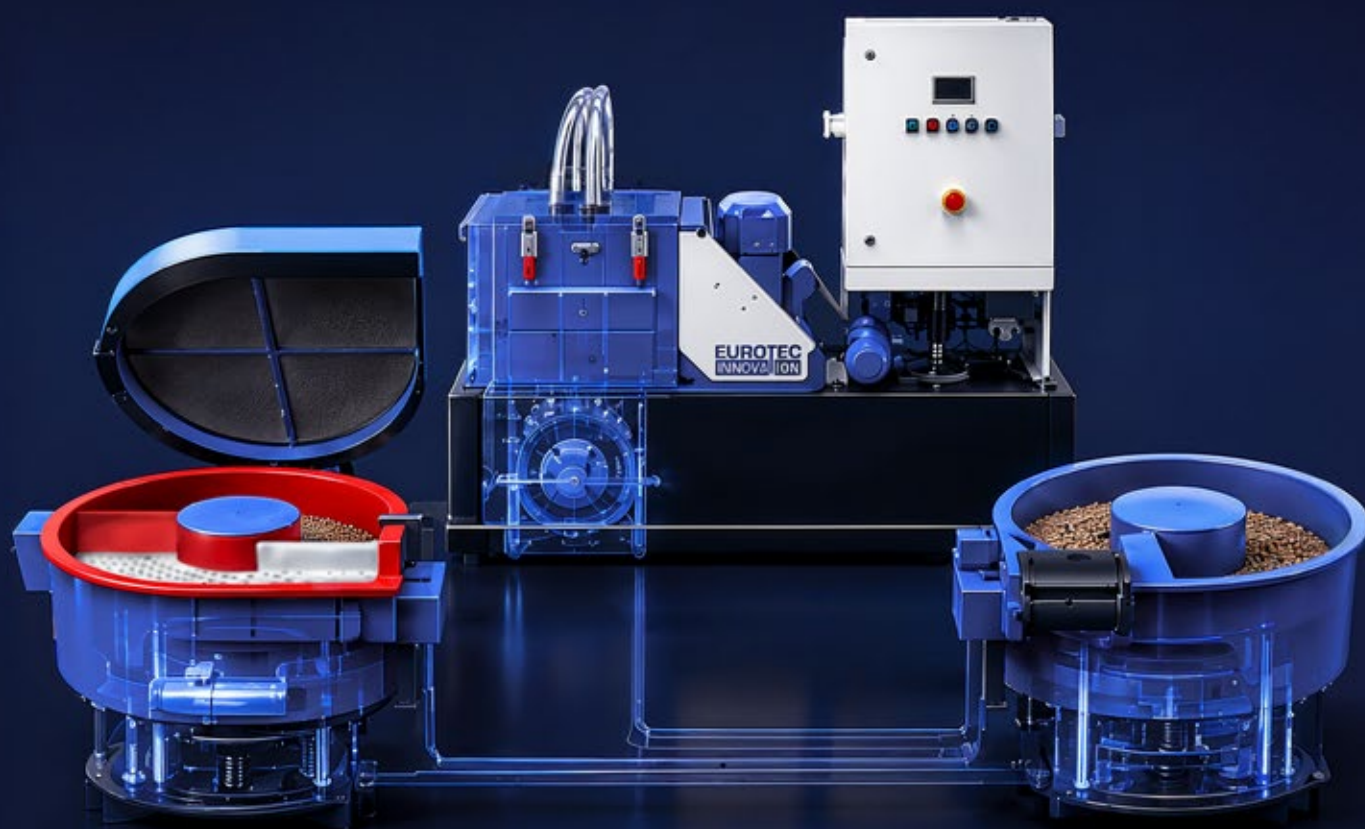


VIBRATORY FINISHING PROCESS WATER TECHNOLOGY

PRODUCT MAGAZINE



EUROTEC
INNOVALION

TV25-M PROblue

- Mobile vibratory finishing system (trough vibrator)
- Compact, mobile plug-and-play system
- For surface finishing of workpieces
- All required components integrated on a mobile trolley
- Integrated process water treatment
- Low-noise operation thanks to a sound-insulated enclosure
- Easy operation via integrated control system
- PROblue version with pre-configured accessory package and rapid commissioning



Mobil and Flexible

The TV25-M PROblue is a mobile vibratory finishing system from Eurotec Innovation, designed for professional surface finishing of workpieces. Its compact plug-and-play design, integrated process water treatment, and user-friendly operation ensure fast setup and maximum flexibility across a wide range of production environments. The PROblue version includes a pre-configured accessory package, enabling rapid commissioning as well as efficient and cost-effective operation.

Technical Features

- Gross capacity: 50 litres
- Working capacity: 36 litres
- Connected load: 0.5 kW
- Working bowl: 600 × 275 × 325 mm (L × W × H)
- 230 V power supply (Schuko plug)

- Variable speed control with frequency inverter
- Integrated screening unit for separating workpieces and media
- 3-stage process water treatment system
- Electronic control system with timer
- Fully enclosed sound-insulated housing
- Mobile design on a trolley

Applications

- Metalworking
- Mechanical engineering
- Tool and die making
- Batch and individual part processing
- Deburring
- Edge radiusing
- Surface smoothing
- Polishing
- Workpiece cleaning

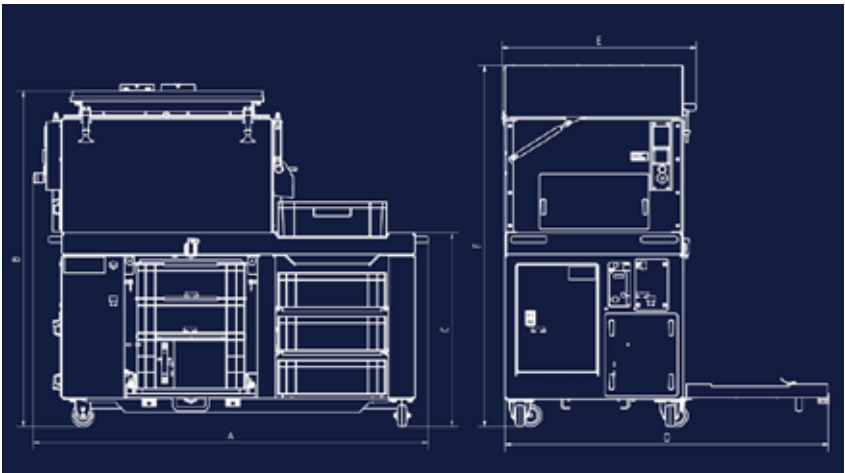


MOBILE VIBRATORY FINISHING TECHNOLOGY WITH MAXIMUM FLEXIBILITY

Accessories

- Automatic dosing system
- Dividing walls for compartment separation
- Triangular bar as a scraper for end faces
- Ball polishing version
- Plastic storage container, 25 litres, grey
- Screening basket suitable for TV25-M in various perforation sizes

Specification	Unit	TV25-M
Gross Volume	Liter	50
Usable Volume	Liter	36
Connected Load (Standard)	kW	0.5
Internal Length of Working Bowl	mm	600
Internal Width of Working Bowl	mm	275
Internal Height of Working Bowl	mm	325
Overall Length of Mobile Unit (A)	mm	1450
Discharge Height of Vibratory Trough (B)	mm	1240
Table Height of Mobile Unit (C)	mm	720
Width with Lid Open (D)	mm	1200
Width of Mobile Unit (E)	mm	730
Overall Height (F)	mm	1400



ZS21 PROblue and ZS38 PROblue

- Part of the cost-effective PROblue product line
- Continuous cleaning and recirculation of process water
- Reliable separation of liquids and solids
- Modular design consisting of a centrifuge unit and base frame
- User-friendly PLC control system
- Replaceable sludge inserts for easy disposal
- Flexible expansion with accessories and additional modules
- Reduced fresh water consumption and disposal costs
- Supports sustainable and resource-efficient production processes
- ZS21 PROblue: compact version for small to medium liquid volumes
- ZS38 PROblue: high-performance version for large liquid volumes and high throughput rates

Efficient Treatment

The ZS21 and ZS38 PROblue industrial centrifuges from Eurotec Innovation are designed for the efficient treatment and recirculation of process liquids. Solids are reliably separated from the process water, helping to reduce operating costs while conserving water and resources. While the ZS21 PROblue is a compact solution for small to medium liquid volumes, the more powerful ZS38 PROblue is particularly suitable for high throughput rates and demanding industrial applications.



Applications

- Treatment of mass-finishing process liquids
- Cleaning and recirculation of process water
- Cleaning of suspensions and emulsions
- Treatment of phosphating, painting, washing and oil baths
- Separation of solids from cooling lubricants
- Cleaning of coolants from sawing, milling and turning machines
- General industrial liquid treatment
- Applications in mass finishing and metalworking



EFFICIENT PROCESS FLUID TREATMENT

Accessories

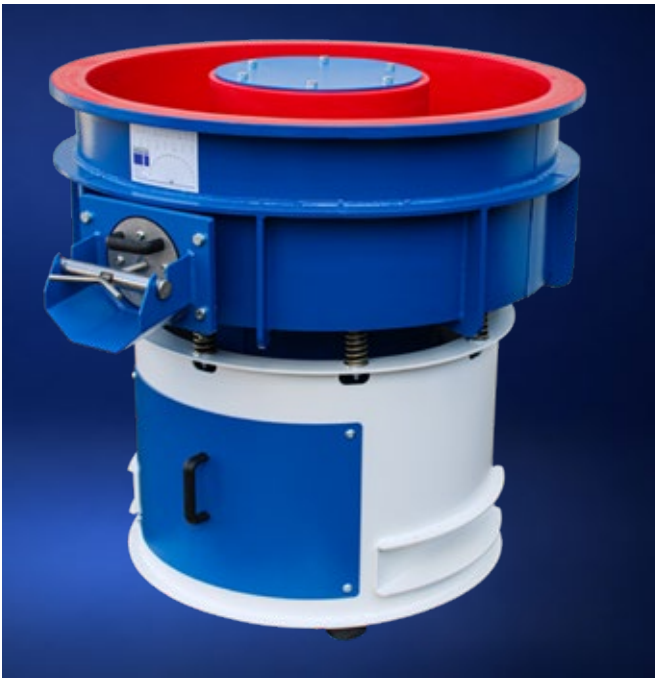
- PU sludge containers
- Mobile version (movable, including swivel casters)
- Metering and transfer pump for compound, flocculants, and powder
- Holder for industrial canisters or drip containers
- Clean water tank including diaphragm pumps
- Standard volumes: 400 l, 600 l, 1,000 l, 2,000 l
- Clean water buffer tank, 20/40 litres
- Agitator for clean water tank
- Automatic night-time start-up function
- Process water ring main
- Auxiliary pump for external suction of dirty

- water (submersible pump)
- Additional pumps for clean water tanks, max. 3,000/6,000 l/h (double diaphragm)
- PLC-controlled cycle operation for auxiliary pump
- Barrel attachment for emptying the sludge container
- Sound insulation for centrifuge below 75/80 dB(A)
- Electric centrifugal pump instead of pneumatic pump
- WHG-compliant containment tray
- Housing and/or drum made of A2 stainless steel
- Expansion option for the second application of ZS-EUR centrifuge units

		ZS21 PROblue	ZS38 PROblue
Nominal capacity	Liter/hour	800	1400
Max. sludge amount per cycle	Liter	3,5	15
	kg	5,5	22
Nominal speed	U/min	4160	2900
Max. acceleration at nominal speed	g	2070	1810
Drive power	kW	1,5	4
Average power input in operation	kW	1,0	2,5
Drum inner diameter	mm	210	380
Volume of sludge tank (SW)	mm	200	200
Volume of clear water tank (KW) (optional)	Liter	20/40/300/500	20/40/300/500
Overall height (A)	mm	1580	1580
Overall width (B)	mm	700	700
Overall length (C)	mm	1706	1706
Sludge discharge height (D)	mm	800	910
Clean water overflow height (E)	mm	375	375

CIRCULAR VIBRATOR RF

- Round work bowl
- Flat bowl base without ramp
- Especially wide processing channel in relation to machine size
- High drive power for maximum grinding performance
- Low-maintenance imbalance motor
- Universally adaptable and interchangeable discharge chutes



Universal and Economical

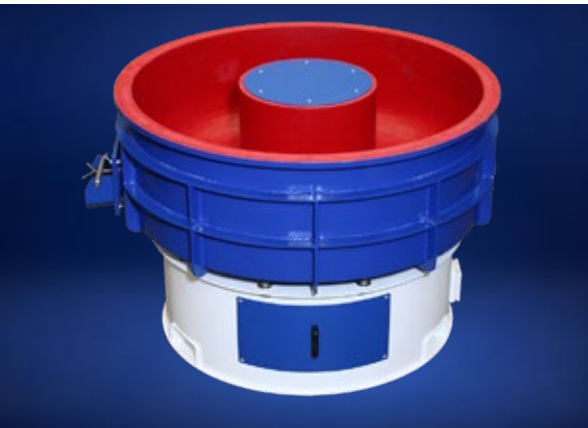
From deburring and edge rounding to high-gloss polishing: circular vibrators are universal mass finishing machines that can be used for a wide range of applications and materials. RF circular vibrators are highly versatile and are ideally suited for particularly large or magnetic workpieces. Thanks to their simple design, RF circular vibrators are particularly cost-effective and economical. Large components are usually separated manually, while a magnetic separator can be used for magnetic workpieces.

Technical Features

- Round work bowl with flat bowl base
- Low-maintenance, powerful imbalance motor
- Particularly wide processing channel even with a low overall volume: this enables the processing of especially large workpieces
- Highly wear-resistant, hot-cast special polyurethane protective lining for maximum service life

Applications

- Heavy components, individual parts
- Large components with complex geometries
- Processing of magnetic workpieces: discharge via magnetic separator
- Sensitive components that could be damaged by drop stages

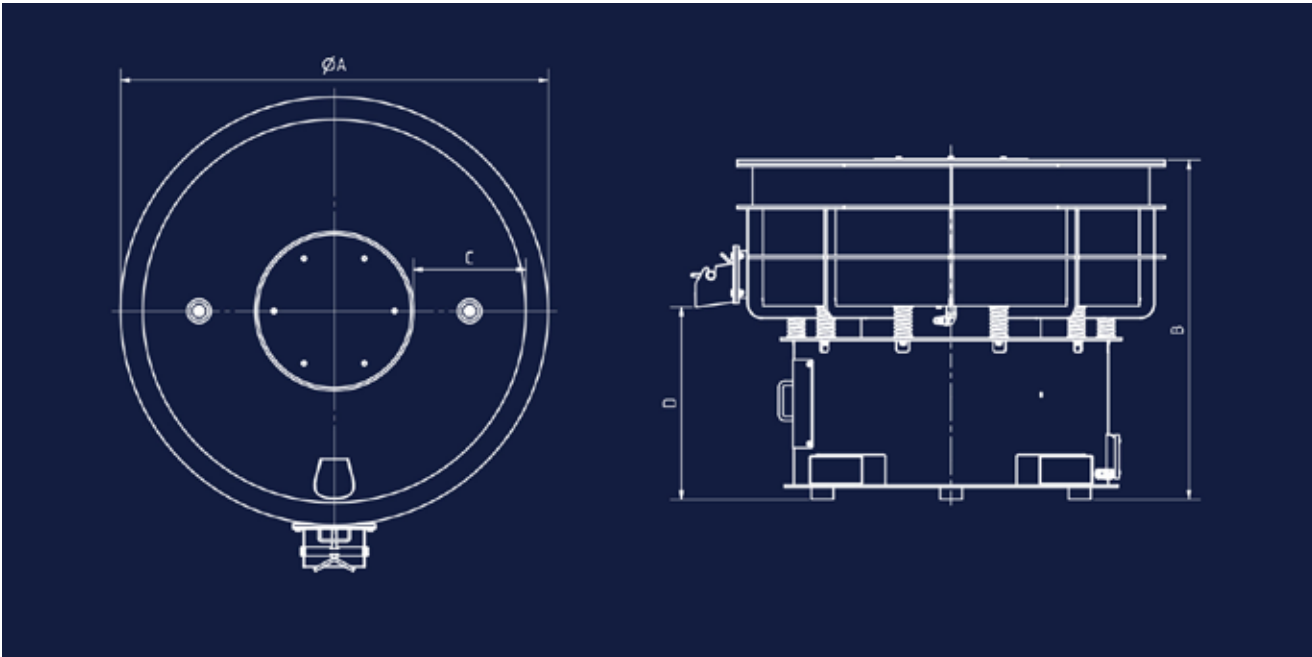


UNIVERSAL AND ECONOMICAL PERFECT FOR LARGE COMPONENTS

Accessories

- Increased drive power for ball burnishing and special processes
- Frequency-controlled drive with variable speed control
- PLC-controlled electrical control systems for semi- and fully automated system operation and optimized process control
- Dosing systems for process media and additives
- Noise reduction concepts, such as sound-insulating covers and complete enclosures
- Moving partition walls for contact-free mass finishing of multiple components
- Pinch valves for mass finishing with a high water level
- Extended process water distribution concepts (ring spray systems, distribution nozzles, rinsing systems, washing nozzles, backflushing systems, etc.)
- Circumferential triangular profile to reduce component adhesion to the bowl wall
- Magnetic separator
- Additional special accessories available on request

		RF03	RF06	RF08	RF11	RF16	RF20	RF26	RF36
Volume (gross)	liters	130	230	330	430	640	800	1060	1460
Max. drive power	kW	1,9	2,5	3	3	7	7	7	11
Outside diameter (A)	mm	1000	1200	1350	1450	1650	1820	2000	2200
Overall height (D)	mm	1020	1090	1120	1160	1225	1270	1300	1320
Channel width (C)	mm	220	270	370	440	470	490	520	650
Stone outlet height (D)	mm	650	650	650	650	650	650	650	650
Channel height	mm	310	370	400	440	480	500	560	600



CIRCULAR VIBRATOR RA

- Round work bowl with integrated separating screen
- Gently rising bowl base
- Pneumatically controlled flap for separation
- Tangential outlet with quick-change screen surface
- Highly wear-resistant cast polyurethane protective lining
- Low-maintenance imbalance motor



Universal and Economical

From deburring and edge rounding to high-gloss polishing: RA circular vibrators are universal mass finishing systems suitable for a wide range of applications. They offer high grinding performance and impress with easy operation combined with high reliability. Thanks to numerous options, the machine can be configured precisely to meet specific requirements.

RA circular vibrators are particularly well suited for processing bulk goods in large quantities. The gently rising bowl base reliably guides the workpieces onto the integrated screen surface. The large screen surface with tangential outlet ensures reliable workpiece separation and also offers the optional possibility of using magnetic separators.

Technical Features

- Round work bowl with a uniformly and gently rising bowl base
- Drop stage for separating adhering workpieces (optionally available with a smoothly descending drop stage for sensitive workpieces)
- Highly wear-resistant, hot-cast special polyurethane protective lining for maximum service life

- Low-maintenance, powerful vibration exciter motor with unbalance weights adaptable to the process (optionally available with adjustable unbalance weights for automatic ramp clearance)
- Pneumatic flap integrated into the bowl for workpiece separation
- Tangential component outlet with large screen surface
- Quick-change screen plates
- Modular system for using different screen plates and separation systems (reverse separation, magnetic separation, etc.)
- Integrated process water distribution concept with replaceable drain screen
- Universal mounting option for attaching a wide range of discharge chutes
- Drain opening for quick media changes
- Easily accessible service openings
- Option to integrate the system into a production line (linking with a circular dryer, conveyor belts, rinsing systems, etc.)

Applications

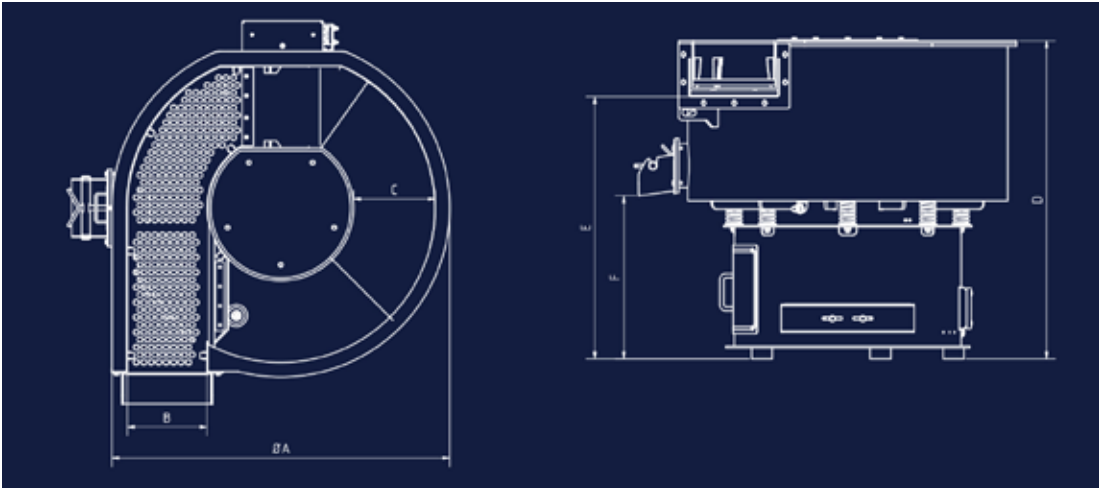
- Mass finishing and polishing of bulk goods in large quantities
- Derusting, descaling, deburring, edge rounding
- Processing of various materials (aluminium, steel, stainless steel, plastic, etc.)

VERSATILE AND ECONOMICAL
IDEAL FOR LARGE QUANTITIES

Accessories

- Ramp clearance via an integrated “reverse gear” (automatically adjustable unbalance weights of the vibration motor)
- Frequency-controlled drive with variable speed control
- PLC-controlled electrical control systems for semi- and fully automated system operation
- Various drop-stage versions (step, ramp)
- Noise reduction concepts (sound-insulating covers, soundproof cabins, enclosures)
- Various separation systems for separating workpieces and grinding media (magnetic separators, reverse separation, scrapers, drop stages, etc.)
- Dosing systems for process media and additives (compound, flocculant, etc.)
- Extended process water distribution concepts (ring spray systems, distribution nozzles, rinsing systems, washing nozzles, backflushing systems, etc.)
- Circumferential triangular profile to reduce component adhesion to the bowl wall
- Pinch valves for mass finishing with a high water level
- Additional special accessories available on request

		RA06	RA11	RA16	RA21	RA31	RA41	RA61	RA76
Volume (gross)	Liter	150	250	350	450	650	820	1220	1550
Usable Volume (net)	Liter	105	175	250	310	450	550	870	1100
Max. Drive Power	kW	1.9	2.5	3	3	7	7	7	11
Outside Diameter (A)	mm	1150	1220	1420	1480	1780	1850	2050	2200
Screen Width (B)	mm	265	285	370	400	475	490	500	575
Channel Width (C)	mm	230	260	330	360	440	450	460	530
Overall Height (D)	mm	1165	1210	1280	1310	1410	1500	1770	1820
Discharge Height (E)	mm	960	1000	1030	1040	1090	1170	1370	1420
Discharge Outlet Height (F)	mm	650	650	650	650	650	650	700	700



CIRCULAR VIBRATOR RM

- Round work bowl without center dome
- Flat bowl base with versatile options for workpiece fastening
- Optionally available with pneumatic lifting device
- Especially suitable for hard-to-reach areas and intricate geometries
- Grinding, polishing, and high-gloss burnishing in one machine thanks to adjustable motor configuration



Versatile and Efficient

From deburring and edge rounding to high-gloss polishing: RM circular vibrators are universal mass finishing machines that can be used for a wide range of applications. They offer high efficiency and stand out thanks to their flexible adaptability to a wide variety of processes.

Our RM circular vibrators are especially suitable for fine grinding and polishing workpieces where high surface quality is required. The special machine design makes it possible to achieve perfect surfaces even in hard-to-reach areas such as corners or internal contours. Thanks to high reproducibility and a uniform grinding pattern, RM circular vibrators offer maximum process reliability and dependability. With the optionally available pneumatic lifting device, workpieces can be changed without having to empty the grinding media.

Applications

- Grinding, polishing, and high-gloss burnishing of large components
- Processing of aluminium components (rims, intake manifolds, general engine components, housings, levers, etc.)
- Smoothing of forging dies and turbine blades (aviation, hydropower, etc.)
- Polishing of die-casting and stamping dies
- Deburring of complex component geometries (matrices, stamping dies, etc.)
- Grinding and polishing of medical implants
- Numerous additional applications

Accessories

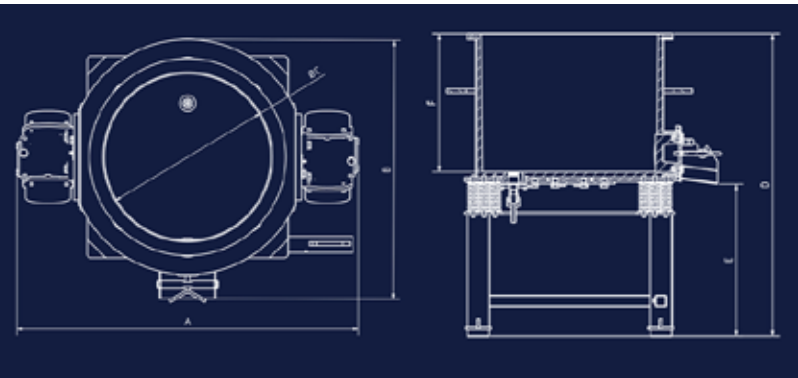
- Pneumatic lifting device for changing components without removing the grinding media
- Enclosures for noise reduction and personnel protection
- Various versions of drive motor angle adjustment
- Additional third imbalance motor on the bowl base for enhanced vertical vibration movement
- Electrical control systems with numerous equipment options and PLC for semi- and fully automated system operation
- Frequency-controlled drive with variable speed control
- Dosing systems for process media and additives (compound, flocculant, etc.)
- Noise reduction concepts (sound-insulating covers, soundproof cabins)
- Pneumatic lifting device for removing components without emptying the grinding media from the work bowl
- Various clamping systems for fixing workpieces in the work bowl (magnetic clamping devices, lifting devices, multi-clamping fixtures, etc.)
- Extended process water distribution concepts (ring spray systems, distribution nozzles, rinsing systems, washing nozzles, etc.)
- Additional special accessories available on request

FOR OUTSTANDING SURFACE QUALITY

Advantages

- Consistent and reproducible processing quality for grinding and polishing results
- Homogeneous and uniform grinding pattern
- Ability to preserve intricate workpiece contours, even in hard-to-reach areas
- Option for contact-free grinding of multiple workpieces in one work bowl
- Designed for continuous operation, including 24-hour operation
- Adaptable drive motors for different operating modes (grinding, polishing, burnishing, etc.)
- Semi-automatic operation possible through electronic process control

		RM33	RM34	RM54	RM84
Volume (gross)	Liter	145	165	260	650
Net volume	Liter	130	150	240	610
Connected load	kW	3	3	5	12
Overall width (A)	mm	1260	1260	1600	2100
Internal diameter (C)	mm	620	620	750	1050
Overall height (D)	mm	1075	1140	1200	1350
Outlet height (E)	mm	530	530	530	530



TUB VIBRATORS TM

- Modular tub vibrator: lengths from 0.5 to over 20 meters based on a modular system
- Various bowl widths
- Expandable as a continuous flow-through system with automatic separation
- Optionally available with infinitely adjustable partition walls
- Numerous options and extensions available



Modular and Versatile

As modular mass finishing machines, TM tub vibrators can be individually adapted to the required specifications. Thanks to their segmented design, the individual modules can be connected, allowing custom bowl lengths of over 20 meters to be realized.

For large quantities of bulk goods, the TM series can be expanded into a fully automatic continuous flow-through system. When processing individual parts, the work bowl can be infinitely divided into segments using partition walls.

Applications:

- Mass finishing and polishing of large components in separate chambers
- Processing of large quantities of bulk goods as a continuous mass finishing system
- Mass finishing of particularly long workpieces (e.g. shafts, worm gears, etc.)
- Derusting, descaling, deburring, edge rounding
- Processing of various materials (aluminium, steel, stainless steel, plastic, etc.)
- Fine grinding and polishing of workpieces

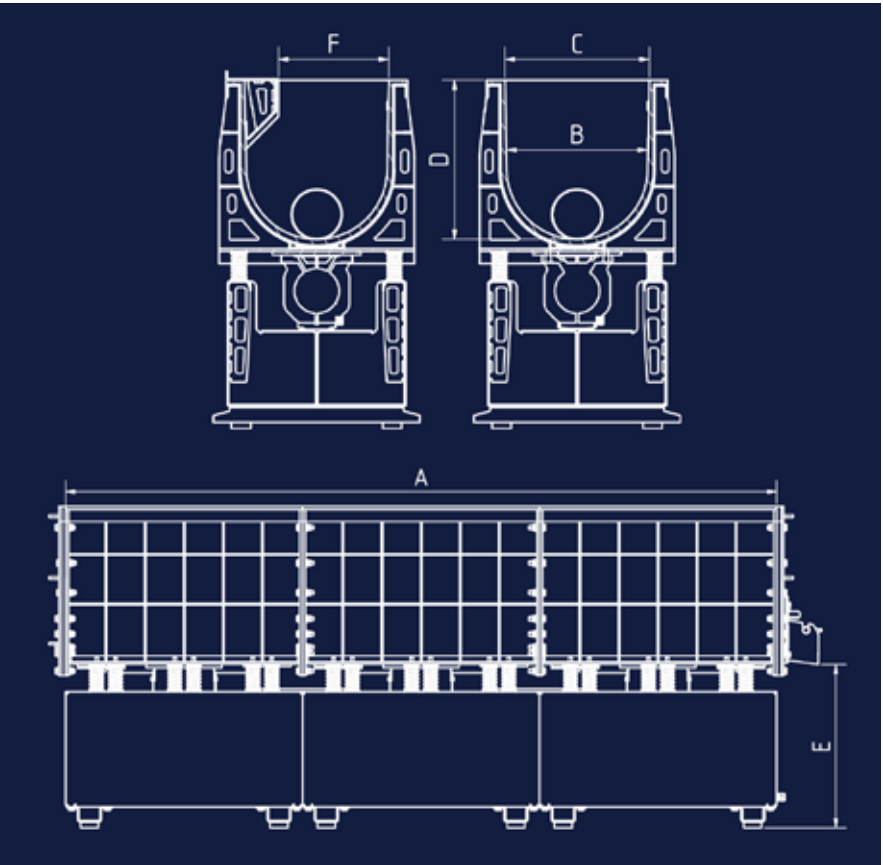
Accessories:

- Partition wall system for dividing the work bowl into chambers
- Screening machines for automatic separation of workpieces and grinding media
- Expandable as a continuous flow-through system with continuous component processing, separation of workpieces and grinding media, and automatic media return
- A wide range of electrical control systems depending on requirements
- Triangular profile to reduce component adhesion to the bowl wall
- Sound-insulating cover to reduce noise emissions
- Various process water distribution concepts (ring spray systems, spray nozzles, etc.)
- Dosing systems for process media and additives (compound, flocculant, etc.)
- Integration with other process systems for automatic component processing

MASS FINISHING TUB VIBRATORS BASED ON A MODULAR SYSTEM

		TM2x	TM3x	TM4x	TM5x	TM6x	TM7x	TM8x	TM9x
Channel width (B)	mm	250	350	430	550	650	750	850	950
		TMx0	TMx1	TMx2	TMx3	TMx4	TMx5	TMx6	TMx...
Container length (A)	mm	500	1000	1500	2000	2500	3000	3500	...
Example		TM53							
Container height (A)	mm	2000							
Channel radius (R)	mm	550							
Container depth (D)	mm	620							
Channel width (F)*	mm	430							
Discharge height (E)*	mm	680							

*Individually customizable



TUB VIBRATORS TV

- Universally applicable in numerous application scenarios
- Compact design with a large work bowl
- Contact-free grinding possible using partition walls
- Particularly cost-effective, even for occasional use
- Quick change of grinding media possible
- Numerous accessory options



Compact and Universal

Tub vibrators are characterized by their compact design and universal application. Thanks to their U-shaped work bowl, even systems with a small overall volume can process very large workpieces. The vibration motor mounted directly on the underside of the work bowl drives the mass finishing system particularly effectively, allowing tub vibrators to operate with exceptional efficiency. Our TV tub vibrators impress with an attractive price-performance ratio and provide an ideal machine platform for a wide range of mass finishing applications.

How it works

In tub vibrators, the workpieces and grinding media are placed loosely into the work bowl as a bulk load. For sensitive workpieces, the components to be processed are either fixed using special clamping devices or processed in separate chambers to prevent damage during processing. The use of partition walls also makes it possible to process completely separate batches simultaneously in one machine.

Application

- Deburring, smoothing and polishing
- Descaling, derusting and cleaning
- Rounding of contours, edges and corners
- Drive with variable speed control (frequency-controlled)

Accessories

- PLC-controlled electrical switchgear for semi- and fully automated system operation
- Continuously adjustable partition walls for dividing the working container into several chambers
- Clamping systems for fixing workpieces
- Dosing systems for process media and additives
- Noise reduction concepts such as sound-insulating lids, enclosures, etc. (pneumatically or manually operated)
- Advanced process water piping concepts (ring spray systems, distribution nozzles, rinsing systems, washing nozzles, etc.)
- Screening systems for separating workpieces and grinding media
- Universally screw-mounted and therefore interchangeable discharge chutes
- Scrapers to prevent parts from adhering to the container wall (available lengthwise and at the front end)
- Ball polishing version

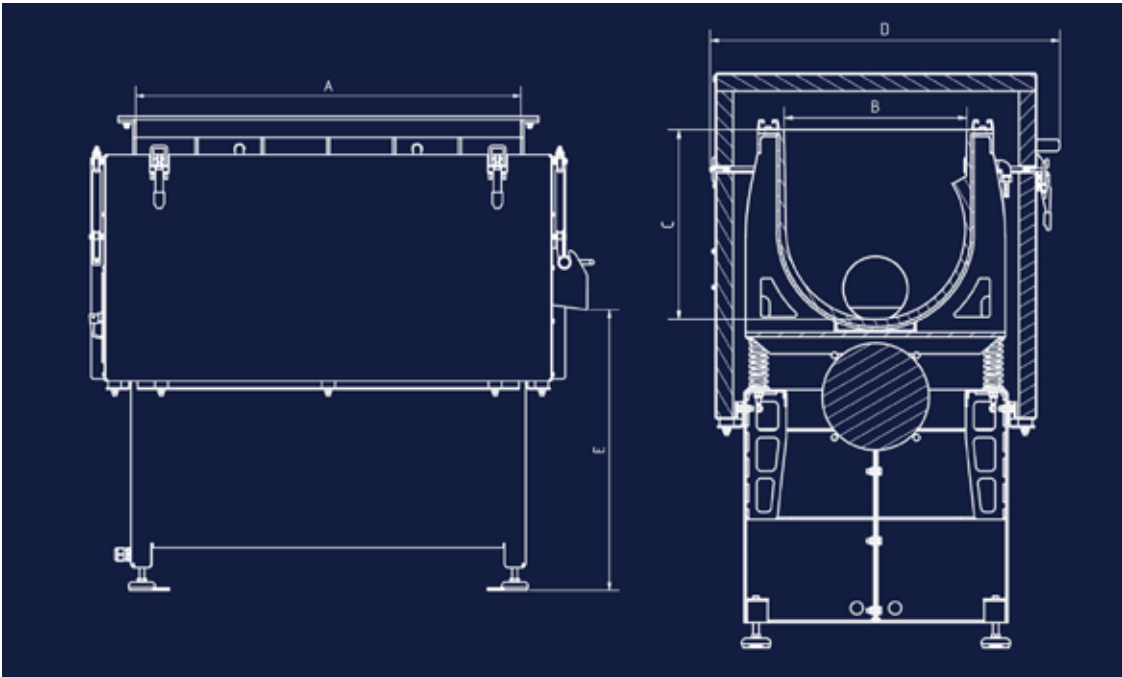
Advantages

- Scraper edge to reduce parts adhering to the inner container wall (standard or optional, depending on the machine size)
- Particularly cost-effective, even when used only occasionally

THE ALL-ROUNDER AMONG VIBRATORY FINISHING MACHINES

- Optionally available as a version for pressure deburring and ball polishing
- Robust design with a low-maintenance vibration motor
- Quick-change polyurethane discharge screen
- Integrated mount for lifting and moving the system using a pallet truck or forklift
- Quick container emptying and abrasive media change thanks to a generously sized discharge opening for grinding media
- Rubber-damped feet to reduce vibration transmission

		TV25	TV45	TV55	TV73
Volume (gross)	liters	50	115	275	470
Usable volume	liters	36	95	230	400
Connected load (standard)	kW	0,5	1	2	4
Internal length work container (A)	mm	600	850	1200	1100
Internal width work container (B)	mm	275	375	480	680
Internal height work container (C)	mm	325	395	520	700
Discharge height (E)	mm	630	630	630	630



MOBILE GRINDING SYSTEM TV25-M

- Mobile mass finishing system with integrated process liquid treatment
- Integrated screening box for separating workpieces and grinding media
- Compact design with large work bowls, including noise protection
- Plug & Play system: connect the 230 V power supply and get started



Mobile and Universal

Tub vibrators are characterized by their compact design and universal application. Thanks to their U-shaped work bowl, very large workpieces can be processed relative to the system size. The TV-M model is unique in that all components required for mass finishing are compactly and mobile mounted on a trolley. An integrated cascade cleans the process liquid, while a screening box enables workpieces to be separated. Different grinding media can be stored in the corresponding slide-in compartments.

Accessories

- Infinitely adjustable partition walls for dividing the work bowl into multiple chambers
- Automatic re-dosing for process media and additives (compound)
- Extended process water distribution concepts, such as ring spray systems, distribution nozzles, rinsing systems, washing nozzles, etc.
- Screens for separating workpieces and grinding media with various perforations. Various screening boxes with standard and special perforations available.
- Clamping systems and fixtures for fixing workpieces
- Customer-specific adaptations

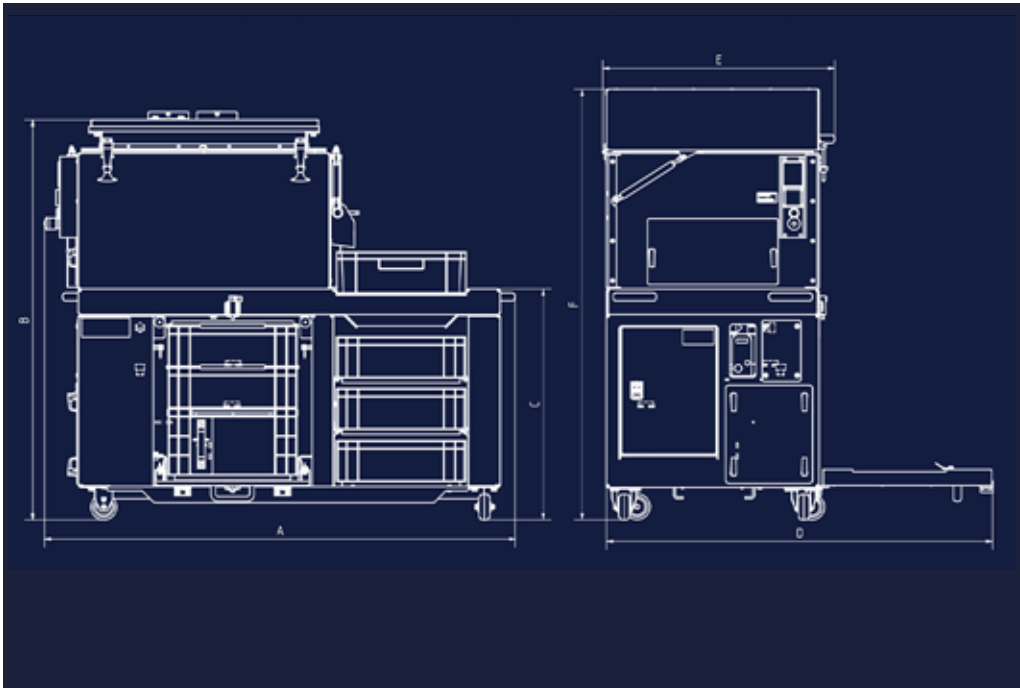
Advantages

- Mobile use: all components integrated into one trolley
- Plug & Play: connect the 230 V power supply and get started (Schuko plug)
- Low-noise operation thanks to a complete sound-insulating enclosure
- Integrated electrical control for process monitoring, including timer
- Standard equipment includes frequency-controlled speed control
- Quick-change screening device for separating workpieces and grinding media
- Integrated process water treatment using a 3-stage cascade



THE MOBILE TUB VIBRATOR FOR MASS FINISHING

Specification	Unit	TV25-M
Volume (gross)	Liter	50
Usable Volume	Liter	36
Connected Load (Standard)	kW	0.5
Internal Length of Working Bowl	mm	600
Internal Width of Working Bowl	mm	275
Internal Height of Working Bowl	mm	325
Overall Length of Mobile Unit (A)	mm	1450
Discharge Height of Vibratory Trough (B)	mm	1240
Table Height of Mobile Unit (C)	mm	720
Width with Lid Open (D)	mm	1200
Width of Mobile Unit (E)	mm	730
Overall Height (F)	mm	1400



CIRCULAR DRYER RT

- Spot-free component drying using maize granulate
- Energy-efficient direct heating of the work bowl
- Spiral-shaped, gently rising bowl base
- Integrated separating screen
- Choice of continuous or batch operation available

Energy-Saving and Powerful

Since a process liquid is usually used in mass finishing, the workpieces are contaminated with it and must be cleaned or dried at the end of the process. For drying the components, either hot air or special drying media are used. For this purpose, the workpieces are placed into the bowl of the circular dryer, which contains a heated drying medium. Nut shell or maize cob granulate is most commonly used for this process.

Applications

- Spot-free component drying directly after the mass finishing process
- Post-polishing of components to improve the surface
- Fine finishing of particularly intricate contours
- Prevention of flash rust through completely dried surfaces
- Efficient drying of complex geometries
- Suitable for special processes such as deoiling components, etc.

Accessories

- Pneumatically actuated slide gates for switching between batch and continuous operation
- Cover to increase energy efficiency, with additional noise and dust protection
- Dust extraction systems
- Increased heating power for shorter heat-up times
- Drive with variable speed control
- PLC-controlled electrical control systems for semi- and fully automated system operation
- Thermostat-controlled temperature control
- Universally adaptable discharge chutes
- Wear and impact protection coatings

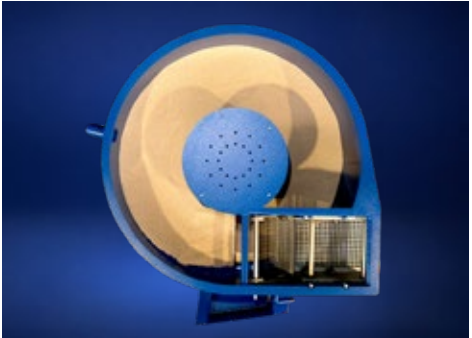
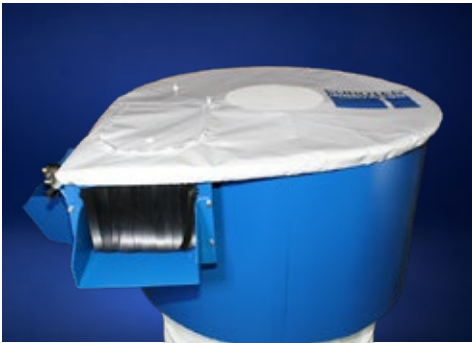
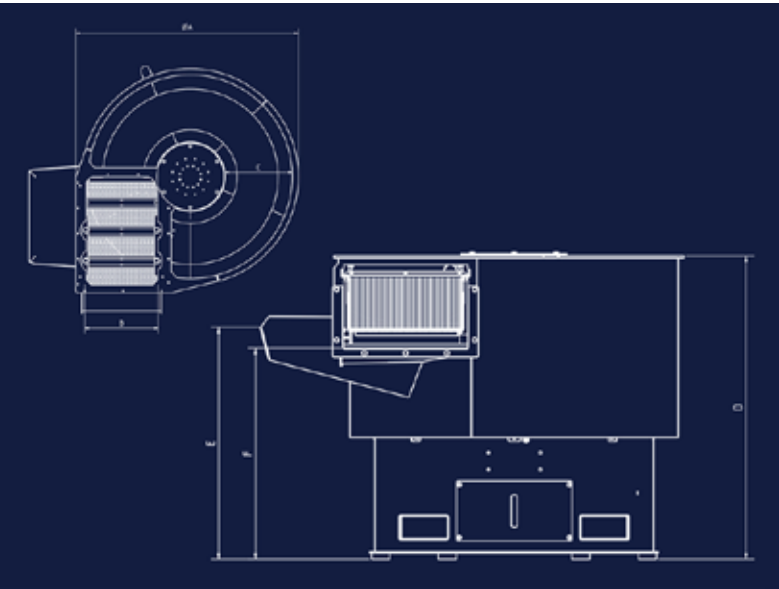


- Discharge chutes for integration into production lines
- Screens for separation in various perforation sizes and with protective coatings to minimize noise and component damage

Advantages

- Economical and fast drying of components after mass finishing
- Energy-efficient direct heating for power-saving operation with minimal energy loss
- Optionally available with increased heating power for shorter heat-up times
- Spot-free surfaces achieved through the use of drying granulates such as maize cob granulate
- Drying and polishing of workpieces in a single operation
- Integrated screening section for efficient workpiece separation
- Selectable batch or continuous operation using an integrated slide gate, optionally with pneumatic actuation
- Spiral-shaped, rising bowl base with ribbed floor for gentle processing with a flat, spiral incline
- Modular, replaceable screen inserts and discharge chutes
- Standard option for connection to dust extraction systems
- Supplied as standard with prepared suction connection for an extraction system

FOR EFFICIENT COMPONENT DRYING AFTER MASS FINISHING



		RT20	RT27	RT37	RT41	RT55
Volume (gross)	Liter	150	270	580	850	1600
Usable Volume	Liter	80	140	350	450	750
Drive Power	kW	1.6	1.6	1.9	2.5	5
Max. Heating Power	kW	3	4	6	10	14
Outer Diameter (A)	mm	1050	1200	1650	1900	2200
Screen Width (B)	mm	250	330	450	500	670
Channel Width	mm	252	330	450	500	670
Overall Height* (D)	mm	1050	1100	1250	1350	1400
Discharge Height* (E)	mm	820	850	900	950	1000
Inlet Height* (F)	mm	820	850	950	980	1050

*Customer-specific height adjustment possible.

CONTINUOUS DRYER/ CONVEYOR DRYER DT

- Continuously dries workpieces using hot air
- Designed for uniform drying processes
- The components travel on a fine-mesh wire mesh conveyor belt through a thermally insulated drying tunnel
- Temperature and conveyor belt speed can be individually adjusted to suit the components, throughput, and process requirements

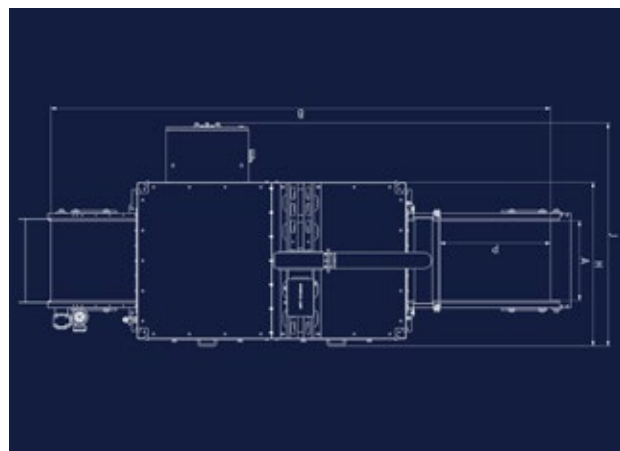
Continuous and efficient

DT continuous dryers are high-performance drying systems designed for the continuous drying of workpieces using hot air. The components are conveyed through a thermally insulated drying tunnel on a fine-mesh wire mesh conveyor belt. Temperature and conveyor belt speed can be individually adjusted to suit the components, throughput, and process requirements.

Optional customizations are available for system height, conveyor belt length, and heating capacity. A high-pressure air curtain for removing liquids can also be integrated. This makes DT continuous dryers ideal for continuous drying processes with high process reliability and consistent component quality.

Accessories

- Air curtain to improve energy efficiency
- Heating control with pulse-width modulation and solid-state contactors



- Individual discharge chutes
- External installation of the control panel
- Timer for start-up and operating times

Advantages

- Continuous and efficient drying of workpieces using hot air
- High process reliability during ongoing drying processes
- Consistent component quality through controlled drying
- Customizable in terms of system height, conveyor belt length, and heating capacity
- Adjustable temperature and conveyor belt speed to suit the component, throughput, and process requirements
- Suitable for large and complex workpieces with challenging geometries
- Expandable with accessories, e.g., an air curtain to increase energy efficiency or a high-pressure air curtain to remove liquids



FOR CONTINUOUS COMPONENT DRYING AFTER MASS FINISHING

		DT32	DT34	DT34-1	DT36	DT36-1	DT36-2	DT54	DT56	DT56-1	DT56-2
Conveyor belt width (A)	mm	600	600	600	600	600	600	600	1000	1000	1000
Belt length (B)	mm	2600	3600	3600	4600	4600	4600	3600	4600	4600	4600
Drying tunnel length (C)	mm	1000	2000	2000	3000	3000	3000	2000	3000	3000	3000
Total height without control system (D)	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Tunnel clearance height (E)	mm	300	300	300	300	300	300	300	300	300	300
Total length without discharge chute (F)	mm	2830	3805	3805	4785	4785	4785	3805	4785	4785	4785
Total length with discharge chute (G)	mm	3040	4015	4015	4995	4995	4995	4015	4995	4995	4995
Total width without control system (H)	mm	1200	1200	1200	1200	1200	1200	1200	1600	1600	1600
Total width incl. control system (J)	mm	1625	1625	1625	1625	1625	1625	1625	2025	2025	2025
Total height* without wind deflector (K)	mm	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
Lower edge of conveyor belt (L)	mm	600	600	600	600	600	600	600	600	600	600
Discharge height* chute (M)	mm	470	470	470	470	470	470	470	470	470	470
Feed length (P)	mm	950	950	950	950	950	950	950	950	950	950
Feed height* (N)	mm	920	920	920	920	920	920	920	920	920	920
Total height* with wind deflector (Q)	mm	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
Max. temperature	°C	150	150	150	150	150	150	150	150	150	150
Max. heating output	kW	24	48	24	72	24	48	48	72	24	48
Heating output range	kW	24	24-48	24	24-72	24	24-48	24-48	24-72	24	24-48
Total connected load without wind deflector	kVA	27	53	27	80	27	53	53	80	27	53
Conveyor belt speed standard	m/min	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
Max. conveyor belt speed (on request)	m/min	8	8	8	8	8	8	8	8	8	8

* individual height adjustments available on request.
Custom modifications available on request.

CENTRIFUGE ZS PE

- Efficient treatment of process liquids through high centrifugal forces
- Various sizes precisely matched to your application
- High throughput rates enable the simultaneous supply of multiple systems
- PLC-controlled and monitored cleaning process
- Process water management

Environmentally Friendly and Powerful

In industrial production, there are numerous applications that generate large quantities of contaminated process liquids. When these liquids are treated and recirculated in a continuous closed loop, costs can be reduced while protecting the environment and conserving resources sustainably.

Our ZS series centrifuges with replaceable sludge inserts are characterized by their high cleaning performance. Thanks to the modular concept, consisting of a centrifuge unit and a base frame, the system can be adapted precisely to your requirements. Process water tanks with different capacities are available for both dirty water and clean water.

ZS centrifuges are particularly user-friendly, as a PLC control system monitors and controls the entire system. The system status is shown on a display. The process water management system independently monitors fill levels and communicates with connected systems. Thanks to the replaceable sludge insert, the discharged and dried solids can be removed and disposed of economically and easily.

Applications

- Treatment of vibratory finishing process fluids
- Cleaning of mixtures, suspensions, and emulsions
- Treatment of phosphating, painting, washing, and oil baths
- Treatment of coolants from saws, milling machines, and lathes
- General separation of solids from liquid mixtures
- Treatment of cooling lubricants (KSS)



Accessories

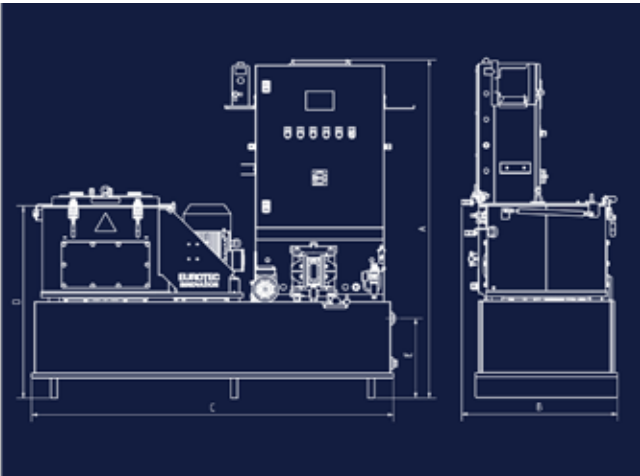
- Various tank sizes as buffers for process liquids, made of PE, PP, or stainless steel
- Modularly expandable clean water tank with various capacities
- Pressure pumps for simultaneous process water supply to multiple systems
- Auxiliary pumps and lifting systems for drawing liquid from external tanks
- Collection trays for substances hazardous to water, in accordance with WHG requirements
- Filter and screening systems for pre-cleaning process liquids
- Automatic level monitoring and refill dosing devices
- Automated dosing devices for additives, such as flocculant and compound
- Electronic connection with a production line

Advantages

- High discharge capacity due to acceleration forces within the system of approximately 2,000 times the acceleration due to gravity (depending on the model)
- Circulation of process water in a closed loop, which minimizes operating costs and protects the environment
- Elimination of the need for expensive additives for the vibratory finishing process (compound)
- Economical and efficient separation of solid particles from a mixture
- Designed for continuous operation with high availability
- Complete process water management within a single system (buffer tanks, pressure pumps, automatic level monitoring and refilling, ...)

FOR CLOSED-LOOP MANAGEMENT OF PROCESS LIQUIDS

- Simultaneous supply to multiple systems with just one ZS centrifuge via optionally available additional buffer tanks for clear water
- Suitable for process fluids up to 70°C (optional cooling available) Applications
- Treatment of vibratory finishing process fluids
- Cleaning of mixtures (suspensions and emulsions)
- Treatment of phosphating, painting, washing, and oil baths
- Treatment of coolants from saws, milling machines, and lathes
- General separation of solids from liquid mixtures
- Treatment of cooling lubricants (KSS)



		ZS21 PE	ZS38 PE
Nominal Capacity	Liter/hour	800	1400
Max. Sludge Quantity per Exchange Cycle	Liter kg	3.5 5.5	15 22
Nominal Speed	rpm	4160	2900
Max. Acceleration at Nominal Speed	g	2070	1810
Drive Power	kW	1.5	4
Average Power Consumption in Operation	kW	1.0	2.5
Inner Diameter of Drum	mm	210	380
Volume Sludge Water Tank (SW)	mm	200	200
Volume Clear Water Tank (KW) (optional)	Liter	20/40/300/500	20/40/300/500
Overall Height (A)	mm	1580	1580
Overall Width (B)	mm	700	700
Overall Length (C)	mm	1706	1706
Sludge Inlet Height (D)	mm	800	910
Clear Water Discharge Height (E)	mm	375	375

COMPACT CENTRIFUGE ZS EUR

- Compact design with full functionality
- Optionally available with an already integrated clean water storage tank
- High cleaning performance through efficient solid-liquid separation
- Plug & Play: ready for operation in just a few minutes
- PLC-controlled and monitored cleaning process



Compact and Versatile

Based on a modular design, the ZS EUR compact centrifuges consist of the standard centrifuge unit and a compact buffer tank. The tank is optionally available with a divided container and also serves as the base frame. Thanks to its compact design, this series offers the full functionality of a cleaning centrifuge with a wide range of applications.

Accessories

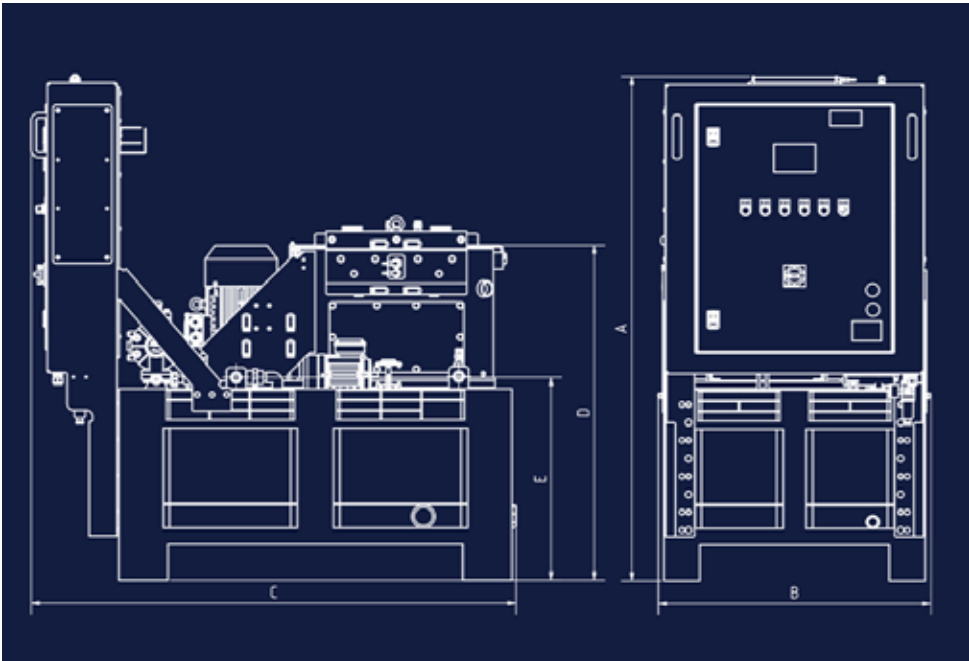
- Auxiliary pumps and lifting systems for drawing liquid from external tanks
- Automated dosing devices for additives, such as flocculant, compound, etc.
- Housing and drum made of stainless steel
- Modularly expandable clean water tank with various capacities
- Numerous control options to increase the level of automation

Advantages

- Compact design with all components integrated, including buffer tank, control system, agitator, pump units, etc.
- Easy transport and commissioning
- Particularly cost-effective thanks to standardization
- Optionally available with divided process water tank: separate dirty water and clean water tanks for maximum flexibility
- Easy access for maintenance and tank cleaning

COMPACT CENTRIFUGES FOR THE HIGHEST DEMANDS

		ZS21 EUR	ZS21 EUR KW	ZS38 EUR	ZS38 EUR KW
Nominal capacity	Liter/hour	800	800	1400	1400
Max. sludge quantity per change cycle	Liter kg	3,5 5,5	3,5 5,5	15 22	15 22
Max. nominal speed	rpm	4160	4160	2000	2000
Max. acceleration at nominal speed	g	2070	2070	1810	1810
Drive power	kW	1,5	1,5	4	4
Average power consumption during operation	kW	1,0	1,0	2,5	2,5
Inner drum diameter	mm	210	210	380	380
Dirty water tank volume (DW)	Liter	225	110	225	110
Clean water tank volume (CW)	Liter	optional (external)	80	optional (external)	80
Overall height (A)	mm	1546	1546	1546	1546
Overall width (B)	mm	835	835	835	888
Overall length (C)	mm	1481	1481	1481	1481
Sludge insert removal height (D)	mm	913	913	1024	1024
Dirty water return height (E)	mm	620	620	620	620



MOBILE CENTRIFUGE ZS-M

- Mobile cleaning centrifuge for flexible processing of process fluids
- Versatile application
- Plug & Play: Ready for operation in just a few minutes
- Efficient solid-liquid separation thanks to high centrifugal forces
- PLC-controlled and monitored cleaning process



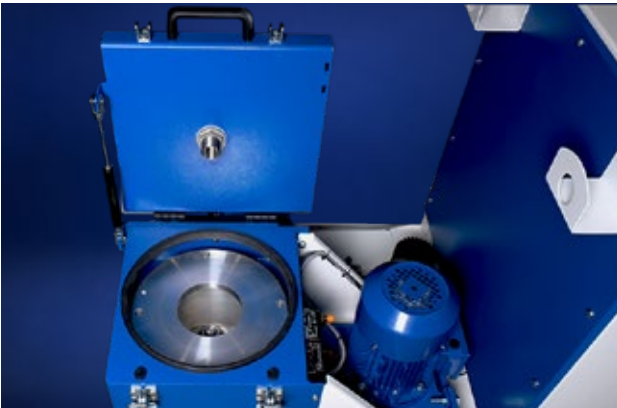
Mobile and Powerful

Contaminated process liquids are generated by many industrial processing machines. In some cases, however, the amount of dirt produced is relatively low, making a separate treatment system uneconomical. A mobile cleaning centrifuge makes it possible to treat the liquids from several process systems using just one centrifuge. This reduces costs while sustainably protecting the environment.

Our mobile ZS-M centrifuges are characterized by their flexibility and very compact design. The mobile base frame allows the centrifuge to be used universally and independently of location. The ZS-M centrifuges stand out thanks to their modular concept and the availability of several machine sizes and buffer tank sizes.

Applications

- Treatment of mass finishing process water
- Cleaning of mixtures, such as suspensions and emulsions
- Treatment of phosphating, painting, washing, and oil baths
- Treatment of cooling lubricants



- Removal of undersize particles during wet blasting
- General separation of solids from liquid mixtures
- Cleaning of baths and storage tanks from external systems

Accessories

- Auxiliary pumps for drawing liquid from external tanks
- Feed tank for external provision of process liquids
- Agitator for improved solids discharge
- Automatic dosing devices for compound and flocculant
- Electronic connection with a production line

Advantages

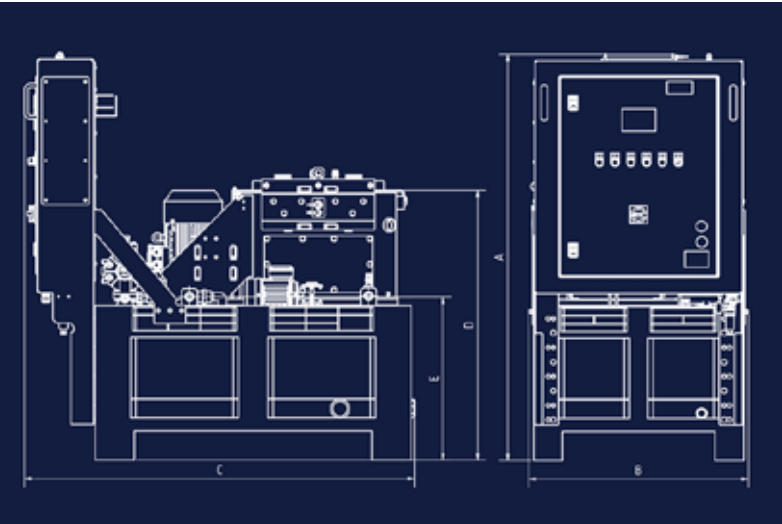
- Maximum mobility thanks to the integration of all components on a trolley
- Flexible use due to compact design
- High discharge performance thanks to acceleration forces of approximately 2,000 times gravitational acceleration acting within the system



FOR MOBILE TREATMENT OF PROCESS LIQUIDS

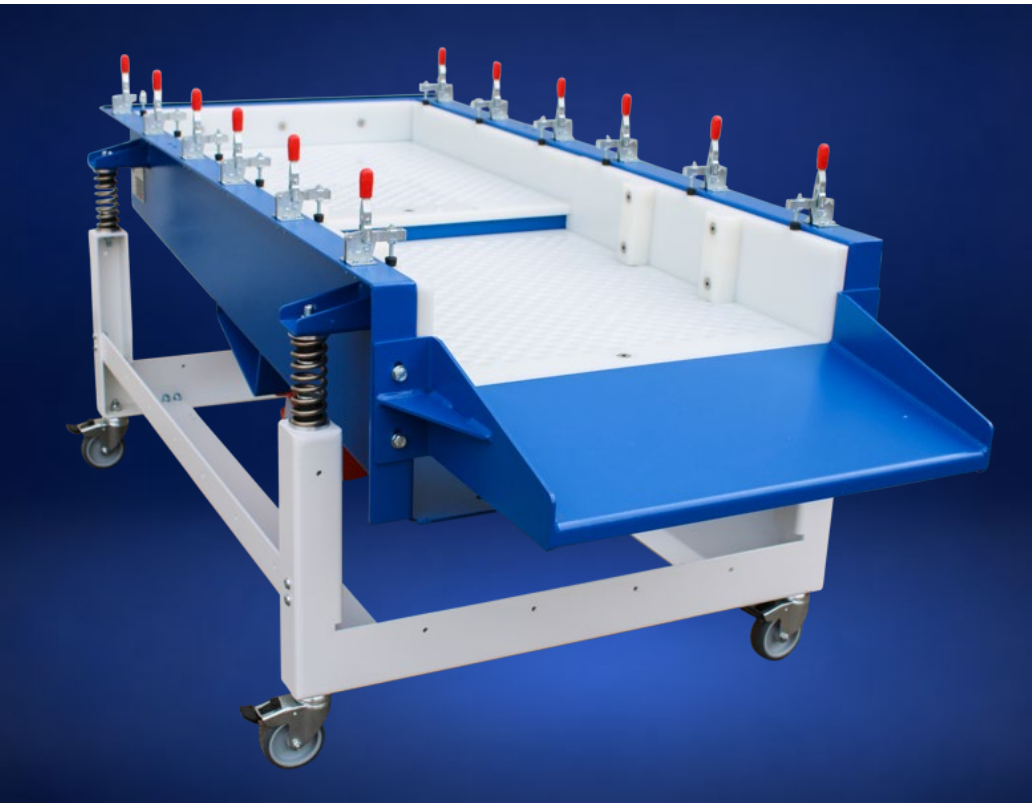
- Process water is circulated in a closed loop, minimizing operating costs and protecting the environment
- Savings on expensive additives for the mass finishing process, such as compound
- Economical and efficient separation of solid particles from a mixture
- Designed for continuous operation with high availability
- Plug & Play system: ready for use within minutes
- Cleaning of liquids from multiple machines with just one centrifuge

		ZS21-M	ZS21-M KW	ZS21-M KW A2	ZS38-M	ZS38-M KW
Container Material	-	PE	PE	Stainless Steel	PE	PE
Maximum Throughput	Liter/hour	800	800	800	1400	1400
Max. Sludge Amount per Cycle	Liter	3.5	3.5	3.5	15	15
	kg	5.5	5.5	5.5	22	22
Nominal Speed	U/min	4160	4160	4160	2900	2900
Max. Acceleration at Nominal Speed	g	2070	2070	2070	1810	1810
Drive Power	kW	1.5	1.5	1.5	4	4
Average Power Input in Operation	kW	1.0	1.0	1.0	2.5	2.5
Drum Inner Diameter	mm	210	210	210	380	380
Sludge Tank Volume (SW)	Liter	225	110	100	225	110
Clear Water Tank Volume (KW)	Liter	-	80	90	-	80
Overall Height (A)	mm	1560	1560	1345	1560	1560
Overall Width (B)	mm	835	835	780	835	890
Overall Length (C)	mm	1490	1490	1125	1490	1490
Sludge Discharge Height (D)	mm	930	930	850	1040	1040
Clean Water Overflow Height (E)	mm	635	635	534	635	635



SEPARATION SYSTEMS WS

- Economical separation of workpieces and grinding media
 - Modularly combinable with many mass finishing systems
 - Mobile use thanks to swivel castors
- Quick-change screen inserts for a wide range of grinding media
 - Adaptable to a wide range of mass finishing systems



Economical and Mobile

For the efficient and economical separation of grinding media and workpieces, our separation machines offer maximum performance in a compact design. They are flexible in use and highly mobile thanks to lockable swivel castors.

Accessories

- Drive with variable speed control (frequency inverter)
- Screen plates with a wide range of perforations according to customer requirements
- Discharge chutes in various designs and lengths
- Integrated screening of undersize particles
- Scrapers, throttle gates, rinsing rings, and drop stages for improved separation
- Electronic connection within a production line

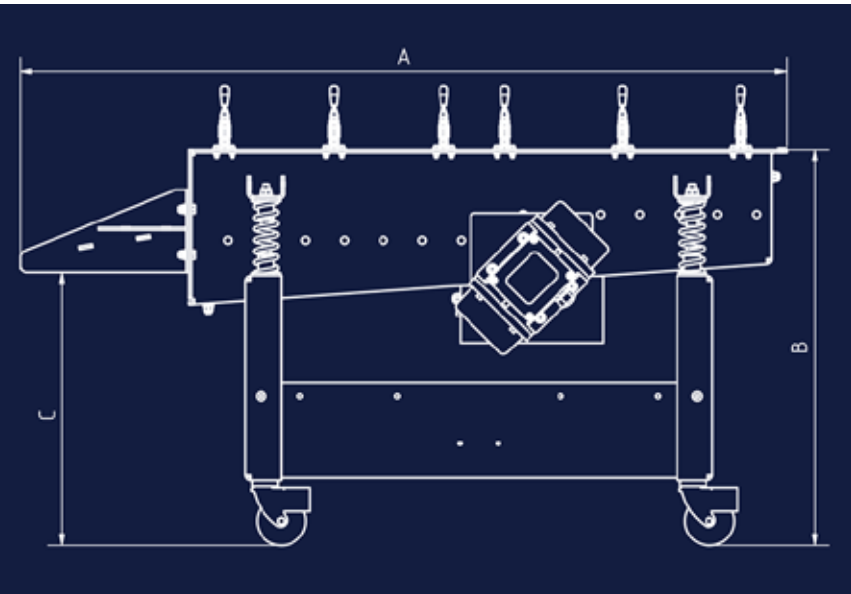
Advantages

- Semi-automatic operation using two imbalance motors
- Economical separation of workpieces and grinding media, even with larger quantities
- Quick-change screen plates thanks to a tool-free quick-clamping system
- Integrated drop stages for improved screening
- Fully plastic-lined screen surface to reduce damage to components during the screening process
- Various discharge chutes precisely matched to each application

FOR ECONOMICAL AND MOBILE SEPARATION

		WS25	WS27	WS35	WS45
Drive Power	kW	2 x 0.12	2 x 0.16	2 x 0.16	2 x 0,35
Inlet Height* (B)	mm	610	650	610	610
Discharge Height* (C)	mm	420	420	420	420
Screen Width (D)	mm	350	350	350	350
Screen Length (E)	mm	880	1320	1200	1400

*Customer-specific height adjustment possible.



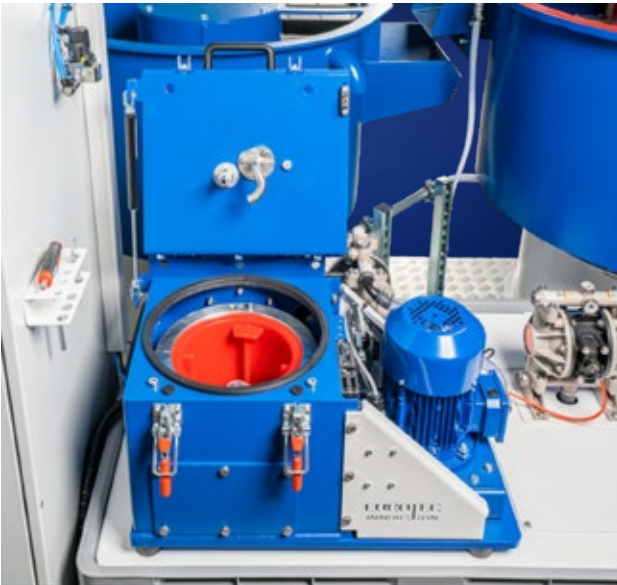
KA COMPACT SYSTEMS

- Compact system solutions for vibratory finishing, drying, separation, and process water treatment
- The KA series serves as a universal mounting system for circular vibrators, trough vibrators, dryers, centrifuges, and screening stations
- Several key process steps are consolidated into a single, space-saving unit

Compact design and easy installation

KA compact systems are integrated solutions for vibratory finishing, drying, separation, and process water treatment on a single platform. The KA series serves as a universal carrier system for circular vibrators, trough vibrators, dryers, centrifuges, and screening stations. This results in space-saving complete systems that efficiently combine all key process steps into a single unit.

Particularly mobile: The platform solution is fully pre-assembled at the factory as a plug-and-play system together with the ordered individual units. This eliminates the need for complex on-site assembly at the customer's location. The individual systems are integrated via a central, universal control circuit. This reduces installation effort, saves space, and enables rapid commissioning. Various sizes and customer-specific designs are available.



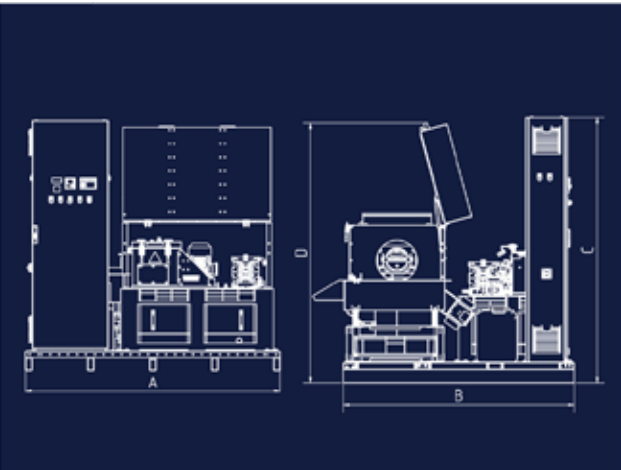
Advantages

- Compact design, as multiple process steps are combined in a minimal space
- Quick and easy installation, as the system is delivered pre-assembled
- Rapid commissioning thanks to a plug-and-play solution
- Reduced installation effort and lower installation costs



FOR A SPACE-SAVING COMBINATION OF MULTIPLE PROCESS STEPS IN A PRE-ASSEMBLED SYSTEM

- Flexible system concepts, as circular vibrators, trough vibrators, dryers, centrifuges, and screening stations can be combined in various ways
- Central control panel instead of multiple individual control panels
- Customizable based on components, quantities, and process requirements
- Flexible financing options available, e.g., leasing, rent-to-own, or rental solutions



		KA11	KA32	KA34	KA55			KA65	KA86	KA88
Overall Length (A)	mm	1600	1995	1995	2350	Overall Length (A)	mm	2600	3150	3150
Overall Width (B)	mm	1350	1500	1702	1840	Overall Width (B)	mm	1840	1995	2350
Overall Height (C)	mm	1980	1980	1980	1980	Overall Height (C)	mm	1980	1980	1980
Combination Options										
TV25, KF200 MP		x				RA11, RT20, KF200 MP		x		
TV25, KF200 MP, SD		x				RA11, RT20, KF200 MP, SA		x		
TV25, ZS21		x				RA11, RT20, ZS21		x		
TV25, ZS21, SD		x				RA11, RT20, ZS21, SD		x		
TV45, KF200 MP		x				RA16, RT27, KF200 MP			x	
TV45, KF200 MP, SD			x			RA16, RT27, KF200 MP, SD				x
TV45, ZS21				x		RA16, RT27, ZS21			x	
TV45, ZS21, SD				x		RA16, RT27, ZS21, SD				x
TV55, KF200 MP			x			RA21, RT27, KF200 MP			x	
TV55, KF200 MP, SD				x		RA21, RT27, KF200 MP, SD				x
TV55, ZS21				x		RA21, RT27, ZS21			x	
TV55, ZS21, SD					x	RA21, RT27, ZS21, SD				x
Separation System (manual)	x	x	x	x	x	Separation System (manual)		x	x	x
Separation System (with motor)	x	x	x	x	x	Separation System (with motor)		x	x	x

**Mass Finishing Technology
Process Water Technology
Centrifuges
Process Media
Component Drying
Special-Purpose Machine Construction**

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