"EC"... Rotary vibrator

Due to their specially designed process channel, rotary vibrators, type EC, are truly general purpose machines: The relatively shallow incline of the process channel in the EC machines allows the processing and separation of small as well as large parts. EC machines are also ideally suited for finishing of delicate parts.

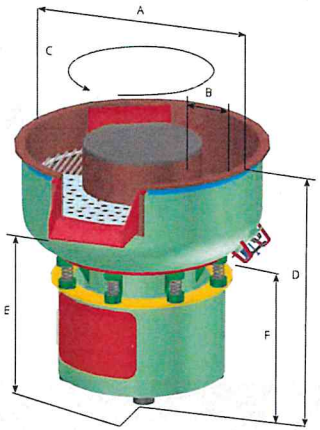
IN UA 2193
UA 2192

Features:

- Shallow incline of the processing channel
- Manually insertable separation gate or pneumatically activated separation flap (option)
- Large-surface and easy to change separation screens (screen change does not require any tools)
- Rösler double-flange vibratory motor with 2 speeds (1,500 and 1,000 rpm at 50 Hz);
  easy and safe lubrication of the bearings
- Wear resistant lining made from hot poured polyurethane
- Flexible design of control panels and compound dosing systems

Extras:

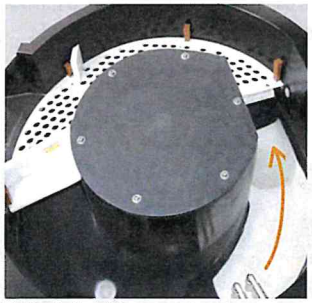
- Extra bottom drains
- Undersize media classification: Integrated into media unload plug or separate segment on separation screen
- Noise protection equipment

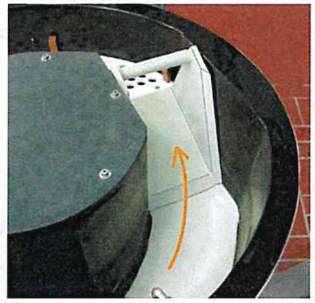


Technical details:

Operator-assisted separation of media from parts:

Due to their shape, size or fragility, certain parts cannot be automatically separated from the media. The manually inserted and easy to handle separation gate allows such gentle separation. Of course, pneumatically activated separation flaps are also available (R 320 EC and bigger).


"Shallow" incline of the process channel


Manually inserted separation gate


Separation of media and parts


Pneumatically activated separation flap

Type			R 125 EC	R 220 EC	R 320 EC	R 420 EC	R 620 EC	R 780 EC
Process bowl								
Total volume	l		125	220	320	420	620	780
External diameter max.	mm	A	910	1,200	1,280	1,520	1,695	1,805
Process bowl width	mm	B	210	260	290	355	430	430
Overall length of processing channel	mm	C	1,970	2,630	2,780	3,300	3,450	3,820
Machine height	mm	D	1,105	1,115	1,210	1,240	1,235	1,260
Unload height	mm	E	890	890	990	1,010	985	1,010
Height media unload plug	mm	F	660	640	650	675	600	575
Separation								
Length x width	mm		710 x 210	980 x 260	1,025 x 300	1,260 x 360	1,315 x 430	1,430 x 430
Area	cm²		1,600	2,600	3,500	4,600	5,800	6,400
Type			Slide-in-gate	Slide-in-gate	Slide-in-gate, optional: pneumatically activated separation flap	Slide-in-gate, optional: pneumatically activated separation flap	Slide-in-gate, optional: pneumatically activated separation flap	Slide-in-gate, optional: pneumatically activated separation flap
Drive power								
Speed (at 50 Hz/60 Hz)*	RPM		1,500	1,500	1,500	1,500	1,500	1,500
Connected load	kW		0.75	3	3	3	7.5	7.5
Media unload plug	Ø mm		105	105	105	180	180	180

* Standard speed 1,500 and 1,000 RPM
Variable speed with frequency inverter

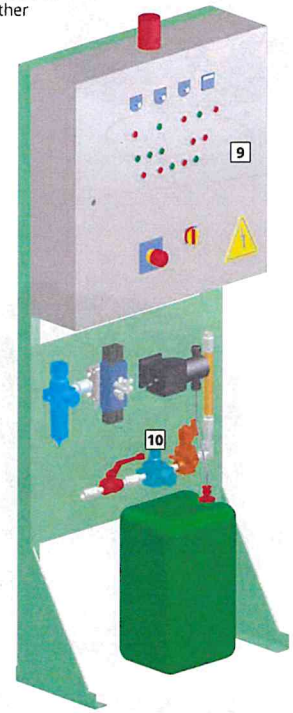
State: 12/2012

Technical details

Rotary vibrators made by Rösler ...

Our highly efficient and flexible machine systems offer virtually unlimited finishing solutions. And our engineers and process technology experts are continuously working on further technical improvements.

Convincing technology ...



1 Work bowl

All our process bowls undergo heat treatment after welding for stress relief.

- Process water supply connections
- Large access doors for easy adjustment of imbalance weights
- Many process bowl variations for easy customization of the equipment

2 Integrated separation unit

The machine types EC, Euro, Euro-HS, Euro-KP, Long Radius and Long Radius-KP are equipped with internal separation. The vibration causes the media and finished parts to move across the separation screen. The media falls through the screen openings back into the work bowl, while the finished parts are moved to the machine exit.

- Separation flap or hand insertable separation gate – for the Euro, EC and LR range
- The robust separation flap is activated by an external pneumatic cylinder (Euro range, optional for EC models)
- Vibration-resistant screen mounts (wedges)
- Spray rinse system over separation screen (optional)

2a Screening of undersized media

- Undersize screen segment: Optional in EC, Euro,Euro-HS and LR range

3 Wear resistant lining of work bowl

Rösler manufactures its own wear-resistant linings. Prior to lining the inside of the work bowl is shot blasted for better adherence of the wear linings. The following optional linings are available:

- Molded polyurethane
- Sprayed polyurethane
- Glued-in rubber or polyurethane sheets

4 Media unload plug

Double function: Media removal from the work bowl and main drain for the effluent from the work bowl. Can be cleaned from the outside

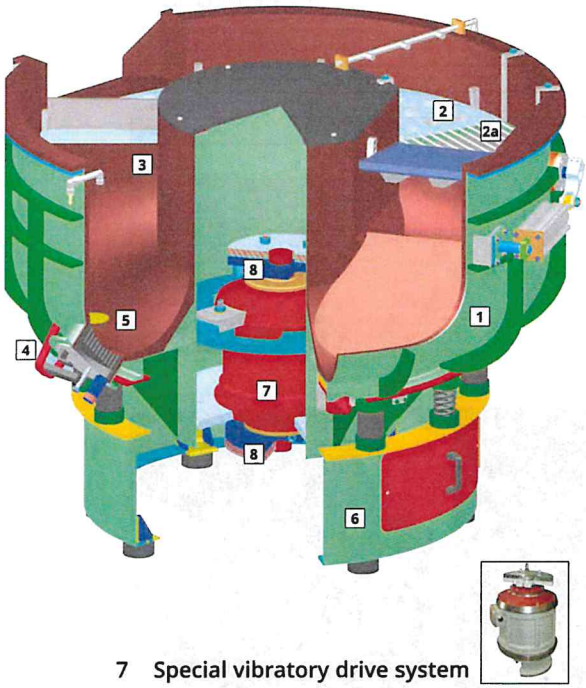
- Optional: Removal of undersize media

5 Bottom drains in the work bowl

For special mass finishing processes like Keramo-Finish®, Isotropic Superfinish (ISF/REM® process), ball burnishing and pickling, we recommend the use of extra bottom drains in addition to the main drain (media unload plug).

6 Stable bowl suspension

- Machine base and the special coil springs arrangement ensure a high degree of stability without limiting the vibratory movement
- Easy access to the lower imbalance weights



7 Special vibratory drive system

The direct drive vibratory motor has been specifically developed for the Rösler rotary vibrators. This powerful and robust drive system provides ample capacity for the transfer of the vibratory energy to the work bowl. The proven double-flange motor fixturing system guarantees a vibration resistant mounting of the vibratory motor onto the inner dome of the work bowl. The motor bearings can be lubricated with an automatic lubrication system. This guarantees a high bearing life.

- 2 standard motor speeds: 1,500 and 1,000 rpm at 50 Hz (1,800 and 1,200 rpm at 60 Hz)

Option:

- Variable speed control by frequency inverter: Provides more flexibility in all processing and separation stages

8 Setting of the imbalance weights

The two basic upper and lower imbalance weights are securely fastened to the motor shaft. The offset angle can be easily set with the help of a shaft mounted disc indicating various angles. Depending on the required vibratory performance, additional imbalance weight plates can be easily added.

9 Electrical control

Relay controls or a PLC (optional) allow the central control of all machine functions.

10 Process water supply

- Separate flow controls for fresh water and compound supply
- Process water recycling systems optional

Extras:

- Circular spray bar for even distribution of the process liquid in the work bowl
- Spray-rinse above the screening area
- Flow control for water and compound

High speed systems

"High speed" rotary vibrators produce an up to 50% higher grinding performance. Depending on the parts to be treated and the required grinding results they represent a real alternative to standard rotary vibrators. Available in the Euro-, A- and R-range as fully automatic double or triple batch systems.

Longevity and high quality

Rösler rotary vibrators are setting high technological standards. Their functional design, the use of high-quality materials and excellent workmanship guarantee a long service life and low maintenance costs. High quality powder coatings and industrial grade paints guarantee a long-term attractive appearance as well as corrosion protection. Upon request special paints and colors are available.