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Dryers

For all component sizes and quantities

Rotary dryer RT ... Euro

Drying and polishing with drying agents to give immaculate, shiny surfaces

Low overall height for simple, convenient operation



This range of machines is normally used for drying components after the vibratory finishing process (although suitable for drying components after any wet process). The rotary dryer is filled with drying media (Supervelat), the wet components are loaded into the machine continuously, or in batch via a loading chute, the wet components travel automatically through the pre-heated drying media around the process chamber and are then separated on a polyurethane coated separation screen. In addition to the stain free drying, additional polishing of the components will take place resulting in high quality finished components.

Options ...

- ▶ Automatic change from continuous drying to batch drying by adding a pneumatically operated separation flap.
- ▶ For drying very delicate components, a polyurethane lining is available, when this option is chosen the method of heating the media changes to hot air blowers from the top of the bowl.
- ▶ Protective Cover to decrease dust and noise.
- ▶ Dust removal.

Special

- 1** Excellent separation of components and drying agent as a result of standard pre-separation facility.
- 2** Automatic separation of components and drying agent using pneumatically operated separation flap, which is available as an optional extra.
- 3** Complete component discharge. The optional special separation flap control prevents components from becoming jammed when closing the separation flap (German patent No. 3520911), thus helping to ensure complete discharge of the components.
- 4** Energy saving as a result of the highly efficient way heat is transferred from the gradually adjustable heating elements to components and drying agent. Heating elements mounted on non-vibrating machine base frame and easily accessible.

Rotary Dryer RT ... Euro

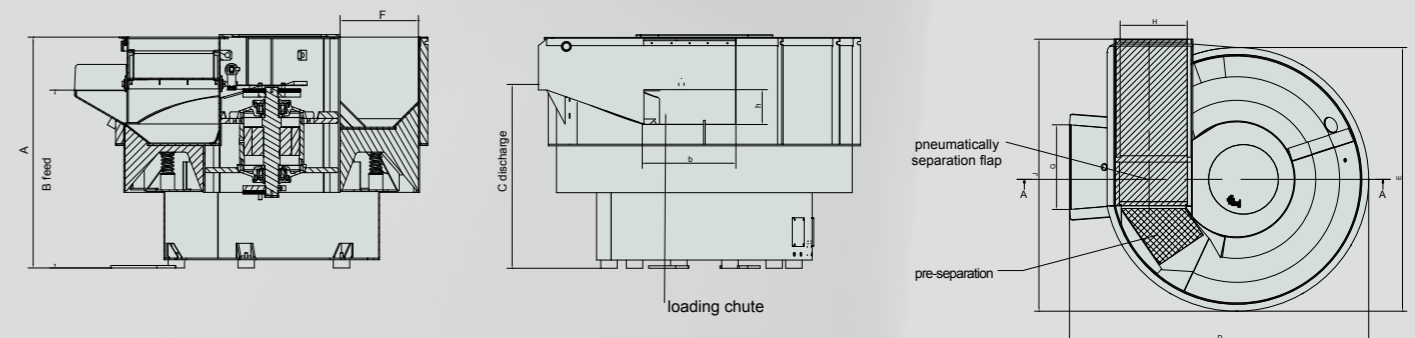
Types		RT 150 Euro	RT 250 Euro	RT 550 Euro	RT 850 Euro	RT 1500 Euro
Standard dimensions						
A	*3	985	1035	1220	1310	1360
B	Feed height *3	860	860	940	985	1100
C	Discharge height *3	830	845	985	1000	1065
D		1240	1380	1770	2150	2500
E		1080	1220	1620	1900	2250
F		246	304	410	477	650
G		450	600	610	610	760
H	Width of separation sieve	250	325	430	485	670
J		1180	1280	1695	1965	2335
Loading chute						
	b	350	530	650	560	560
	h	100	130	150	185	220
Maximum components dimension (diagonal measurement)						
	l	up to 80	up to 135	up to 290	up to 450	up to 750
Drive speed	Upm	1500	1500	1500	1500	1500
Motor power	kW	0,75	1,5	3	7,5	12
Heater power	kW	2/4*1	2.3/4.6*1	6.5/9.75*1	18*2	36*2

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*1 adjustable in two stages (optionally thermostat-controlled)

*2 thermostat-controlled

*3 height adapted to relevant round vibrators. Height can be reduced on request



Belt Dryer R ... BT

Hot air drying for components with holes, in which drying agent would become lodged



Dryer with up to 75 kW heating output, flow of air circulation of up to 9.000 m³ per hour and temperatures of up to 150°C.

This range of machine is normally used for large and small components that are sensitive to damage. Heavy components or components that have many different sizes of holes are especially suited to this type of machine. The drying is by means of hot air which is thermostatically controlled and recirculated in a drying chamber. A stainless steel woven wire mesh belt transports the components through the drying chamber. In order to optimise the heat specially shaped nozzles direct the hot air onto the components.

The input and output belt lengths and tunnel dimensions can be easily adapted to meet special requirements.

Special

- 1** High output as a result of up to three large-volume hot air circulation fans and variable conveyor belt speed.
- 2** Energy saving by thermostatically controlled, independently adjustable radiators and drying tunnel insulation.
- 3** User-friendly working as a result of generously sized inlet and outlet areas with component buffer function and low noise level.
- 4** Washing system available for connection upstream, with or without cold air fan for blowing out residual water from spoon-shaped parts before they enter the drying tunnel.

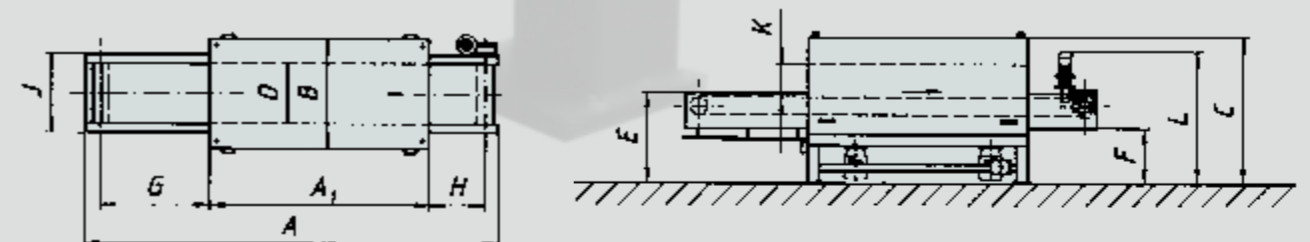
Belt dryer R ... BT

Types		R 1000.1 BT	R 2000.1 BT	R 2000.2 BT	R 3000.3 BT
Standard dimensions					
A Belt length	mm	2265	3765	3765	4765
A ₁ length of drying tunnel	mm	1000	2000	2000	3000
B	mm	1000	1000	1000	1000
C	mm	1325	1325	1325	1325
D Belt width	mm	600	600	600 * ¹	600 * ¹
E	mm	820	820	820	820
F	mm	500	500	500	500
G	mm	500	1000	1000	1000
H	mm	500	500	500	500
J	mm	725	725	725	725
K (standard/optional)	mm	200	250	300	300
L	mm	1200	1200	1200	1200
Adjustable heat output	kW	22,5	22,5	22,5 - 45	22,5 - 67,5
Total connected load	kW	25,82	25,82	51,52	77,22
Rate of air circulation up to	m ³ /h	3000	3000	6000	9000

conveyor belt material:
optional special steel, normal steel
belt speed:
standard 0.4 – 2.5 m/min,
optionally up to 6 m/min

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*¹ Also available on request with 700 mm and 800 mm belt width



Drum dryer R ... TT

Drying and polishing of cup-shaped or flat components with drying agent to give immaculate, shiny surfaces



High performance machine for drying and polishing cup-shaped or flat components which would drag out drying agent or cover the separation sieve in rotary dryers.

This range of machines is normally used for drying large, mass produced components, the rotary scroll is filled with drying media (Supervelat), the components are loaded into the entry point of the machine, either continuously or in batches. In the drying section of the scroll the components are permanently covered by the drying media, the drying media (Supervelat) is heated via a heating system at the base of the machine, this ensures complete evaporation of any liquids and maintains the optimum condition of the drying media.

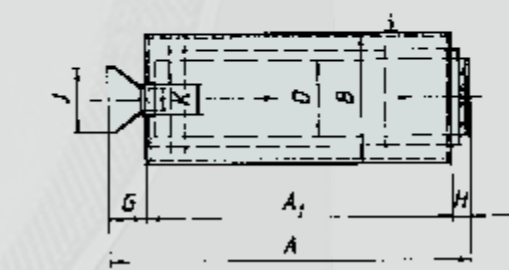
Special tumbling profiles are strategically fixed to the inside of the scroll ensuring the continuous transport of components through the drying section to the separation section. At the separation section the components are automatically discharged from the machine, while the Supervelat is returned and re-used in the drying section.

Special

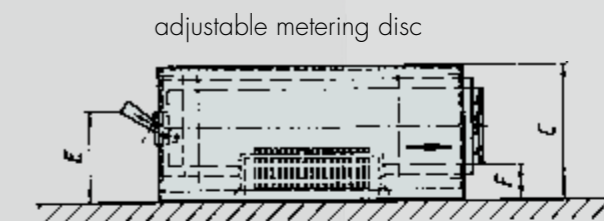
- 1** Large drum dimensions and large volume to accommodate large component batches produce high output.
- 2** Drying times can be varied by easily adjustable control wheel. Drumspeed control possible.
- 3** Constant turning of the components in the large volume dryer drum ensures rapid drying.
- 4** Automatic separation of components and drying agent by large, integral, replaceable sieve drum with automatic drying agent return.
- 5** Energy-saving as a result of the highly efficient way heat is transferred from the easily accessible, thermostatically controlled heating elements to the workpieces and the drying agent. Drumhousing completely isolated.
- 6** Easy change drying media by reversing drum rotation.

Drum dryer R ... TT

Standard types		R 2002 TT	R 3002 TT	R 5000 TT
External dimensions				
A	mm	2900	3890	3630
A 1	mm	2200	3190	2880
B	mm	1340	1360	1600
C	mm	1415	1415	1735
D	mm	1006	1006	1280
E *1	standard feed height	mm	1080	1110
F *1	standard discharge height	mm	380	380
G	mm	400	400	400
H	mm	300	300	370
J	mm	690	690	690
Dimensions of the drying drum				
Overall length	mm	2272	3270	2520
External diameter (D)	mm	1006	1006	1280
Length of drying compartment	mm	1300	2260	1530
Diameter of drying compartment	mm	795	795	1077
Volume of drying compartment	Liter	655	1160	1510
Diameter of filling aperture (K)	mm	320	320	450
Length of sieve drum	mm	1120	1130	1000
Diameter of sieve drum	mm	800	800	1105
Sieve drum perforation (standard)	mm	5	5	5
Heating power	kW	13,5	27	27
Drum speed *2	Upm	4,0	4,0	4,0



standard sieve basket perforation
5 mm or to suit customer's needs



adjustable metering disc

*1 measurements can be adapted to customer's wishes

*2 optional, infinitely variable speed

State: 08/11

Centrifugal Dryers R ... HTZ

The Rösler series HTZ centrifuges are ideal for stain-free drying of small parts, whilst preventing components from becoming tangled together

Centrifugal dryers



Series R 400 HTZ

Types	R 400 HTZ	R600 HTZ	
Diameter of cylindrical * ¹ centrifuge basket, mm	400	600	
Thickness of basket wall, mm	3	4	
Diameter of basket perforation Ø, mm Special perforation is possible	3	4	
Basket volume in litres * ⁴	30	100	
Max. batch loading, kg	50	100	
Max. batches per hour	12-14	10-12	
Speed, rpm * ²	980	740	
Heating power - kW * ³	4	4	
Voltage Special voltage is possible	230/400	230/400	
Rated motor current A	4,5/2,6	6,1/3,5	
Motor braking current A	2,3	5,6	
Motor start-up power, kW	5,2	5,4	
Hot air fan, kW	0,09	0,09	
dimensions			
□ A	mm	650	900
Ø B	mm	400	600
Ø C	mm	300	500
D	mm	990	1190
E	mm	260	410
F	mm	570	570
G		R 2"	R 2"
H	mm	740	990
I	mm	730	980
K	mm	730	980
L	mm	1045	1245

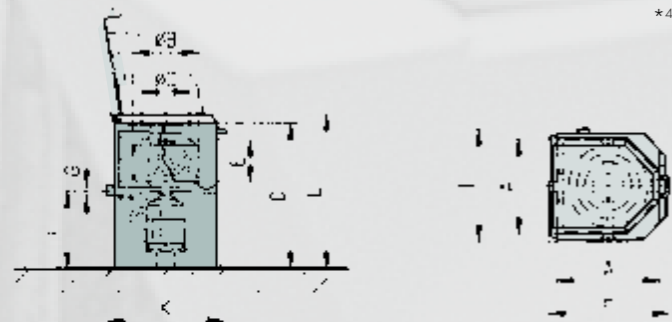
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*¹ standard galvanised normal steel, special steel available
 *² special speeds and infinitely variable, speed control available
 *³ (variable in three stages) special heating power available
 *⁴ effective volume in relation to centrifuge speed, approx. 50%

Accessories

The scope of application of our centrifuges can be extended by accessories. The following accessories are available for all types:

- ▶ heater fan
- ▶ infinitely variable speed control for the centrifuge basket
- ▶ lifting device with power lift for the centrifuge basket
- ▶ additional facilities for washing, coating or oil-removal processes



Modern, environmentally friendly, cost-saving drying process

Stainless drying – with or without mirror finish



Demands for high quality are increasingly calling for dry components as a requirement for uninterrupted production. Increased customer demands with respect to stain-free and highly polished final products also have to be met.

We can offer you the right solution to your problems:

- ▶ high gloss drying with drying agent
- ▶ normal drying with drying agent
- ▶ normal drying with hot or cold air

finding a better way ...

When it comes to dealing with surface finishing and surface preparation problems, Rösler offers **the process solution!** Our customers can choose between two processing technologies, **Vibratory finishing** or **Shot blasting**, which offer virtually unlimited possibilities. Through extensive processing trials, we always find the right finishing solution for our customer's needs. This includes not only the development of a specific finishing process, but also the selection of the right equipment and consumables. We deliver the solution to satisfy your surface finishing requirements. Our success in the market proves that we are right. It is not by chance that our innovative developments and our high quality standards have established Rösler as the world technology and market leader in surface finishing and shot blasting.

In more than 60 countries we support our customers with a closely-knit network of Rösler subsidiaries and sales representatives.

We are the only company in our field operating test and demonstration centres throughout the world. This allows us to run test trials under real production conditions close to our customers. This offers several advantages: Our customers save time and money, and at the same time – through our professional processing trials and advice – they are assured of receiving the best process solutions and products available on the market!



Worldwide Demonstration and Test Centres

Our main test centers for vibratory finishing and shot blasting are located at the Rösler headquarters in Untermerzbach, Germany:

- more than 95 vibratory finishing and shotblasting systems
- working space: approx. 2,700 square meters

Similar test centres are located in the United States, Great Britain, France, the Netherlands, Belgium, Spain, Turkey, Romania, Italy, Austria, Switzerland, Russia, South Africa, Brazil, Serbia and India.

The Total Process Solution

Consumables, machines and process safety in perfect combination:

- The optimum interaction between consumables, machinery and process stability produces excellent finishing results
- Cost saving automation allows running multiple process steps without any operator intervention
- Comprehensive training of your operators and maintenance staff
- After-sales service guarantees high uptimes for your equipment

Environmental Protection – Top Quality

The consideration of environmental issues guarantees a high level of product quality and environmental protection. For example, circulating the process water is a key feature of our mass finishing technology. In this case, the positive effect on the environment is reflected in savings of compound and water of up to 95%. At the same time, a high level of process reproducibility and finishing quality is guaranteed.

Rösler is a dynamic organization where the initiative and commitment of each employee plays a key role. Systematic training and a cooperative management with lean structures are essential elements of our corporate philosophy. This allows us to create a workplace environment which attracts talented young people.

Rösler Complete Solutions

We develop and produce all components of vibratory finishing techniques in highest quality. Our products are compatible to each other, ensuring the best process results.

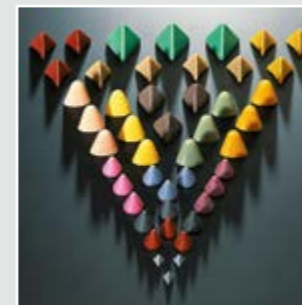


DIN EN ISO 9001



Consumables

We produce plastic media and compounds and can look back to more than 60 years of experience in the production of ceramic media. This has created a unique programme with more than 8000 different designs and qualities. Our requirements for the highest quality are shown in the highest quality control during the production process. We only produce with environmentally friendly raw materials.



Test Centres Worldwide

In all areas of production we operate strict quality control, this is also the case in our test centres, here new processes and technical innovations are carried out under practical conditions and developed. Each group member has their own test centre where sample tests for customers are carried out.



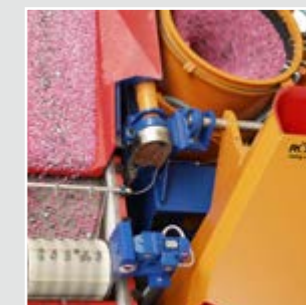
Environmental Technology

Our conception "environmentally friendly vibratory finishing" takes care of the three main elements of your disposal problems: Disposal of effluents, disposal of sludge, disposal of packaging material. We are offering the best solutions for each problem. Solutions which can be realized independently of each other. Applying the overall conception, however, is most efficient for reasons of environmental protection and will be supported in the future.



Processing Systems

Our machines and systems are always of the latest technology. Our high quality requirements and extensive production control guarantee reliability and value. Our standard machines are tested by experts and have been awarded the CE sign. So you can be assured that our products are produced to the high recognised standard.





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