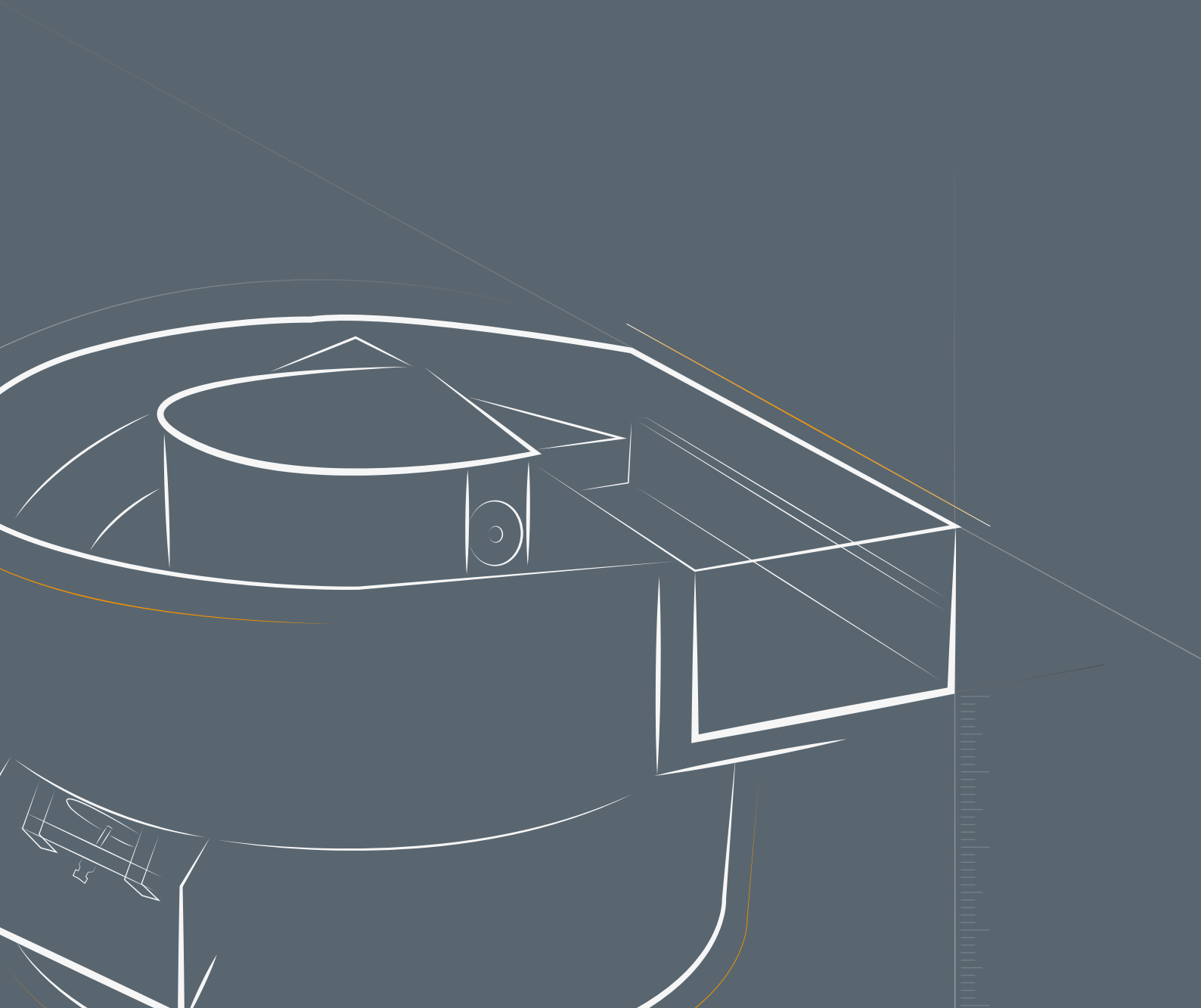




Dryers

For all component sizes and quantities



Rösler process solutions working in perfect harmony

When it comes to surface finishing, Rösler is known to offer complete, well-engineered process solutions. Based on our comprehensive knowledge of mass finishing and shot blasting technologies, we can provide our customers with practically unlimited finishing solutions. In our state-of-the-art test lab, we conduct meaningful test trials to develop the optimum finishing processes for our customers because only complete solutions yield the best results. We are not simply offering specific surface finishing processes but we are also supply perfectly matched auxiliary equipment and consumables. This approach has proven to be highly successful and has established Rösler as the global technological and market leader, with groundbreaking innovations and extremely high quality standards.

In more than 60 countries we support our customers with a comprehensive network of Rösler sales branches and independent distributors.

Rösler is the only supplier in its field maintaining test labs all over the world, where we develop process solutions under actual operating conditions and select the most suitable equipment. This approach saves our customers not only long travel distances and high freight costs, but it also provides them with products and processes that have been extensively tested by our specialists under the most severe operating conditions.



DIN EN ISO 9001



DIN EN ISO 50001

Global network of test labs

Test labs for mass finishing and shot blasting at the Rösler headquarters in Untermerzbach:

- ▶ More than 95 mass finishing and shot blast machines.
- ▶ About 2,700 m² (27,000 sqft) workspace

Our teams in USA, Great Britain, France, Netherlands, Belgium, Spain, Turkey, Romania, Italy, Austria, Switzerland, Russia, Brazil, Serbia and India provide similar test lab services.

Complete solutions

Besides demanding high quality, environmentally safe and efficient products, our customers also prefer to purchase all process components from one single source. That is why we offer not merely the processing equipment but the complete package with perfectly matched consumables. This guarantees the best finishing results and absolute process safety. Our global service teams take care of the delivery and the installation for you. Qualified engineers train our customers right at their location. And, of course, our after-sales service members will answer all of your questions. Quick supply of all spare parts and professional consultation by our experienced process specialists ensure that your finishing processes are always running smoothly.

Rösler Academy

Professional knowledge within a highly systematic framework

In hands-on and effective seminars our Rösler professional trainers, certified by TÜV Rheinland, provide you with theoretical and practical knowledge about mass finishing and shot blasting as well as Lean Management.

You will find a complete list of our seminars under www.rosler-academy.com



Overview

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Applications

Cams/tappets	Misc. stampings (e.g. slats)	Castings
Rivets	Pump housings	Screw driver
Socket & pin wrench	Pliers	Cutlery and many more

Rotary dryer RT ... Euro

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

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.



Low overall height for simple, convenient operation

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

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.

3

Automatic separation

of components and drying agent using pneumatically operated separation flap, which is available as an optional extra.

4

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.

Specifications Rotary Dryer RT ... Euro

Types	RT 150 Euro	RT 250 Euro	RT 550 Euro	RT 850 Euro	RT 1500 Euro
Standard dimensions					
A – (mm) * ³	985	1.035	1.220	1.310	1.360
B – Feed height (mm) * ³	860	860	940	985	1100
C – Discharge height (mm) * ³	830	845	985	1.000	1.065
D – (mm)	1.240	1.380	1.770	2.150	2.500
E – (mm)	1.080	1.220	1.620	1.900	2.250
F – (mm)	246	304	410	477	650
G – (mm)	450	600	610	610	760
H – Width of separation sieve (mm)	250	325	430	485	670
J – (mm)	1.180	1.280	1.695	1.965	2.335
Loading chute (b)	350	530	650	560	560
Loading chute (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)	1.500	1.500	1.500	1.500	1.500
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

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

*² thermostat-controlled

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

State: 08/2011



Belt Dryer R ... BT

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

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.



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.

Special

1

High output

as a result of up to three large-volume hot air circulation fans and variable conveyor belt speed.

2

User-friendly working

as a result of generously sized inlet and outlet areas with component buffer function and low noise level.

3

Energy saving

by thermostatically controlled, independently adjustable radiators and drying tunnel insulation.

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.

Specifications 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)	2.265	3.765	3.765	4.765
A – length of drying tunnel (mm)	1.000	2.000	2.000	3.000
B – (mm)	1.000	1.000	1.000	1.000
C – (mm)	1.325	1.325	1.325	1.325
D – (mm)	600	600	600 * ¹	600 * ¹
E – (mm)	820	820	820	820
F – (mm)	500	500	500	500
G – (mm)	500	1.000	1.000	1.000
H – (mm)	500	500	500	500
J – (mm)	725	725	725	725
K – (standard) (mm)	200	250	300	300
L – (mm)	1.200	1.200	1.200	1.200
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 (m³/h)	3.000	3.000	6.000	9.000

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

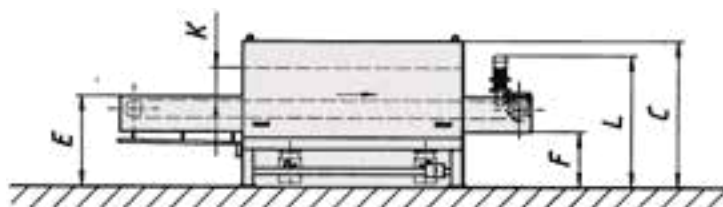
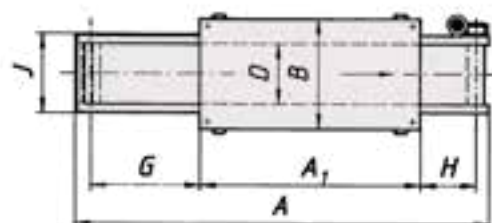
State: 08/2011

conveyor belt material:

optional special steel, normal steel

belt speed:

standard 1 - 3 m/min,
optionally up to 6 m/min



Drum dryer R ... TT

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

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.



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.

Special

1

Large drum dimensions

and large volume to accommodate large component batches produce high output.

2

Constant turning

of the components in the large volume dryer drum ensures rapid drying.

3

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.

4

Drying times

can be varied by easily adjustable control wheel. Drumspeed control possible.

5

Automatic separation

of components and drying agent by large, integral, replaceable sieve drum with automatic drying agent return.

6

Easy change drying media

by reversing drum rotation.

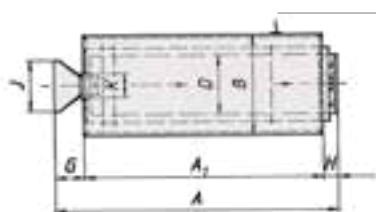
Specifications Drum dryer R ... TT

Standard types	R 2002 TT	R 3002 TT	R 5000 TT
External dimensions			
A – Belt length (mm)	2.900	3.890	3.630
A ₁ – length of drying tunnel (mm)	2.200	3.190	2.880
B – (mm)	1.340	1.360	1.600
C – (mm)	1.415	1.415	1.735
D – (mm)	1.006	1.006	1.280
E * ¹ – (mm)	1.080	1.080	1.110
F * ¹ – (mm)	380	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)	2.272	3.270	2.520
External diameter (mm)	1.006	1.006	1.280
Length of drying compartment (mm)	1.300	2.260	1.530
Diameter of drying compartment (mm)	795	795	1.077
Volume of drying compartment (l)	655	1.160	1.510
K – Diameter of filling aperture (mm)	320	320	450
Length of sieve drum (mm)	1.120	1.130	1.000
Diameter of sieve drum (mm)	800	800	1.105
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

*¹ measurements can be adapted to customer's wishes

State: 08/2011

*² optional, infinitely variable speed



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



adjustable metering disc

Dryers – For all component sizes and quantities

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



Accessories

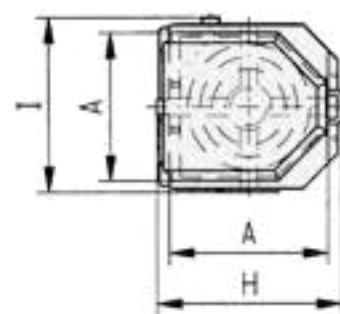
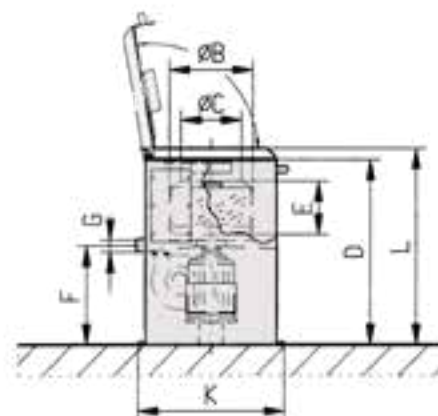
The scope of application of our centrifuges can be extended by accessories. The following accessories are available for all types:

- ▶ 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

Specifications Centrifugal Dryers R ... HTZ

Types	R 400 HTZ	R 600 HTZ
Diameter of cylindrical *1 centrifuge basket Ø (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 (l) *4	30	100
Max. batch loading (kg)	50	100
Max. batches per hour	12-14	10-12
Speed, rpm *2	960	690
Heating power (kW) *3	4	4
Voltage Special voltage is possible	230/400	230/400
Motor (kW)	1,5	3,0
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	1.190
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)	1.045	1.245

State: 10/2018



*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%

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



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