

COATINGFLEX SYSTEMS

Unsere Produkte



Industrieöfen

Batch and Continuous Ovens for various applications within a temperature range between 80 °C and 650 °C.



Wärmebehandlungsanlagen

Heat Treatment Lines for the heat treatment of aluminum parts like e.g. motor blocks, cylinder heads or structural parts for cars.



Beschichtungsanlagen

Coating Lines to apply zinc-flake coatings as well as anti-friction coatings in an efficient way.



Slush Moulding Anlagen

Slush Moulding is a process to manufacture skins, mainly made of PVC-powder, which are used in the interior of cars like e.g. instrument panels, glove box lids or door panels



ZINC-FLAKE COATING - TYPICAL APPLICATIONS



Stampings / pressings



Threaded parts

WHY INVESTING IN A NEW COATING LINE?





THE REASONS

- Latest technology
- Reduced overall costs
- Everything from one source



BASKET COATING LINES

Main features

Standard or customised

High throughput

Short cycle times

Compact design – small footprint

 Automatic refeeding for multiple coating possible

Basket storage area

 Belt conveyor oven or Tray conveyor oven







BASKET COATING LINES Main features

- Uniform distribution of the coated parts onto the conveyor belt resp. into the trays
- Tilting or non-tilting centrifuges
- Max. 85° tilting angle
- Slow rotation of the basket during filling the basket
- Fast acceleration
- Suitable for all kind of bulk goods









BASKET COATING LINE

Successful example of a satisfied customer

Shortest cycle time:

1,2 minutes

Basket volume:

35 - 80 litres or max. 80 kg

Annual output:

600 Mio./a (hose clamps) (= 16 Mio. litres/a)

Number of baskets based on a cycle time of 1,2 min. and 80 litres per basket:

50 baskets/h

Output per hour based on a cycle time of 1,2 min.: 4.000 litres

Solvent quantity:

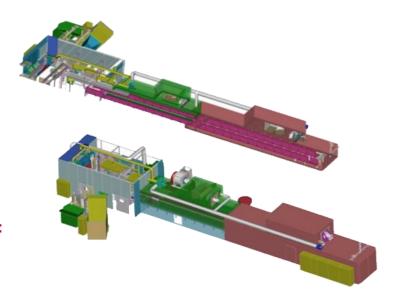
max. 10.000 g/h

Inner dimensions of basket:

Ø 728 mm x height 430 mm

Outer dimensions of basket:

Ø 798 mm x height 500 mm



BASKET COATING LINE

Successful example of a satisfied customer

Cycle time:

2 minutes

Basket volume:

200 kg resp. 135 litres

Output per hour (cycle time 2 min.):

max. 6.000 kg resp. 4.050 litres

Solvent quantity:

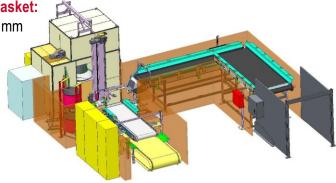
max. 6.000 g/h

Inner dimensions of basket:

Ø 730 mm x height 530 mm

Outer dimensions of basket:

Ø 800 mm x height 600 mm



BASKET COATING LINES SUMMARY ADVANTAGES

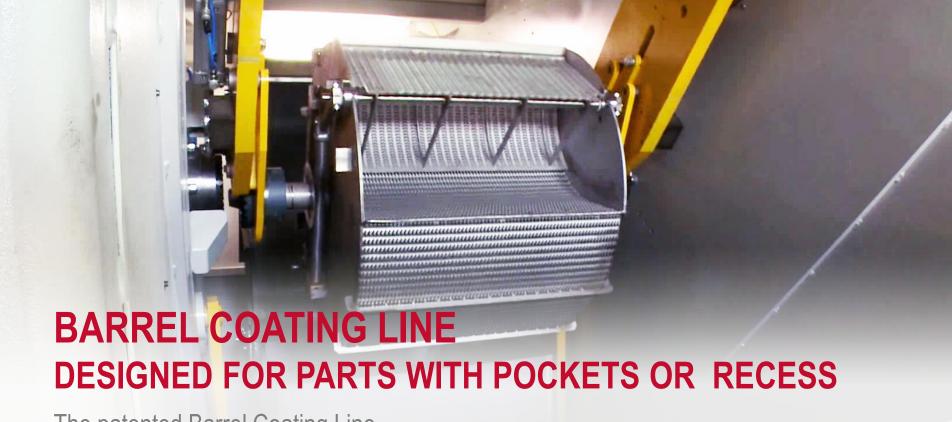
- Short basket movements
- No basket movements at warm ambient air temperature
- Less build-up of coating material on the basket
- Leading to longer basket cleaning cycles
- Small footprint
- Exhaust air volume as low as possible
- Reduced overall costs



BASKET COATING LINES

		Basket lines		
		K451/350	K801/600	K 802/600
Features				
Number of drums/baskets in the coating cell		1	1	2
Tilting up to 85° while spinning		Yes	Yes	Yes
Ø drum / basket	mm	Ø 450	Ø 800	Ø 800
Width drum / height basket	mm	H 350	H 600	H 600
max. batch load	kg	100	200	200
max. batch volume	Liter	35	135	135
toal volume	Liter	55	350	350
Reference part hexagon head				
screw 3/8" x 1 1/2"		universal application		
min. cycle time	min	3	2	1,5
max. throughput rate (1 Layer)	kg/h	2000	6000	8000
Approx. paint volume	Liter	100	250	250
Range of parts Ø		3/16" - 3/4"	3/16" – 1"	3/16" – 1"
Length min / max	mm	1/4" - 6"	1/4" – 8"	1/4" – 8"
		Suitable for single- or program controlled multiple coatings		
Reinhardt Continuous ovens and cooling zones:		Both varieties of that coating lines can be equipped with our belt type or the space saving pallet type continuous ovens		





The patented Barrel Coating Line



Fast, efficient, unique!

- Highly productive
- Short cycle times
- Small footprint
- Ideal for recesses and fine threads and many more
- Low drop heights soft handling
- Controller temperature and humidity inside the coating cabin
- Barrels always remain inside the coating cabin
- → no movments of drums at warm ambient temperature
- → thereby less coating material sticks on the barrels
- → leading to barrel cleaning cycles from six up to ten weeks



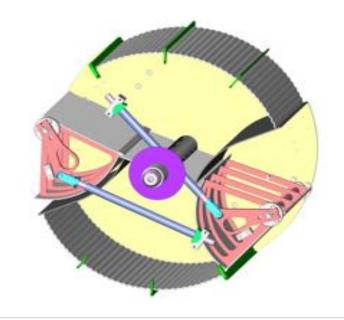




Fast, efficient, unique!

THE FACTS AND FIGURES OF OUR PATENTED BARREL SYSTEM:

- Special for threaded parts with recesses, fine and internal threads
- 2 barrels in the process continuously
- Each barrel divided into 2 chambers
- Each chamber has a useable volume of 120 I
- 200 kg maximum batch load per barrel
- Inside wall with nubs to avoid any sticking parts



Fast, efficient, unique!

THE FACTS AND FIGURES OF OUR PATENTED BARREL SYSTEM:

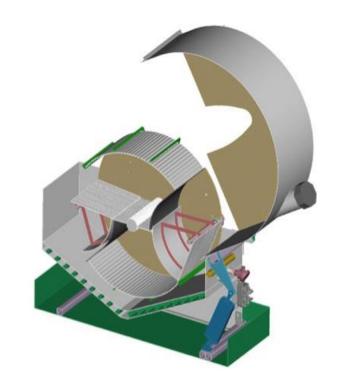
- Fastest cycle time = 2 min. per barrel
- High mobility of the parts inside the barrels
- Fast acceleration when spinning-off
- Small dip tank volume



Fast, efficient, unique!

THE FACTS AND FIGURES OF OUR PATENTED BARREL SYSTEM:

- Dip tank volume 160 I only
- High flow rate in the barrel of coating material
- The automatic lid ensures the solvents stay inside the dip tank during the coating process
- Dip tank with level monitoring and temperature sensor
- Optionally with pump, filters and mixingdevice



BARREL COATING LINE SUMMARY ADVANTAGES

- REINHARDT-Barrel Coating Lines offer economic advantages:
 - Small overall footprint by this we save valuable and expensive space
 - 2. Coating process ensues in a closed, small cabin with controlled temperature and humidity
 - Low total exhaust air volume → cost reduction regarding the RTO
 - 4. Less costs for barrel cleaning as the barrels always stay in the temperature- and humidity-controlled coating cabin
 - 5. Reduced dip tank volume increased material turnover
 - 6. No clogged pockets, recesses and internal threads



		Drum lines		
		T 301	T 602	
Features				
Number of drums/baskets in the coating cell		1	2	
Tilting up to 85° while spinning		-	-	
Ø drum / basket	mm	Ø 800	Ø 800	
Width drum / height basket	mm	B 300	B 600	
max. batch load	kg	100	200	
max. batch volume	Liter	60	120	
toal volume	Liter	90	180	
Reference part hexagon head				
screw 3/8" x 1 1/2"		perfect for allen head etc.		
min. cycle time	min	4	2	
max. throughput rate (1 Layer)	kg/h	1500	6000	
Approx. paint volume	Liter	100	160	
Range of parts Ø		3/16" - 5/8"	3/16" – 3/4"	
Length min / max	mm	3/8" - 6"	3/8" – 6"	
		Suitable for single- or program controlled multiple coatings		
Reinhardt Continuous ovens and cooling zones:		Both varieties of that coating lines can be equipped with our belt type or the space saving pallet type continuous ovens		



Successful example of a satisfied customer

Cycle time:

2 - 4 minutes

Shortest cycle time:

2 minutes

Possible load per barrel:

200 kg resp. 120 litres

Output per hour (cycle time 2 min.):

max. 6.000 kg resp. 3.600 litres

Dimensions of barrel:

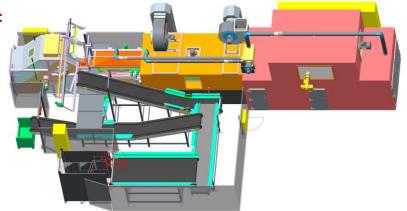
Ø 800 mm x width 600 mm

Total exhaust air volume:

2.960 m³/h to the RTO

Total space requirements:

22 m length x 12 m width

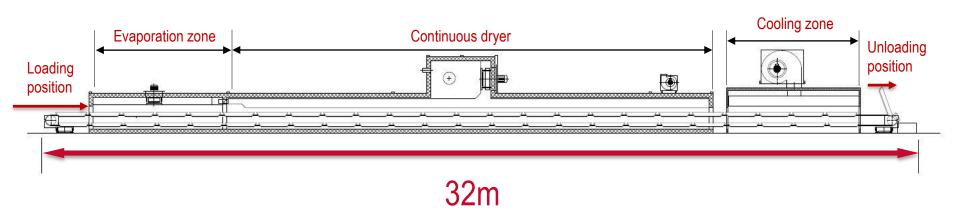




Patented Reinhardt Barrel coating line



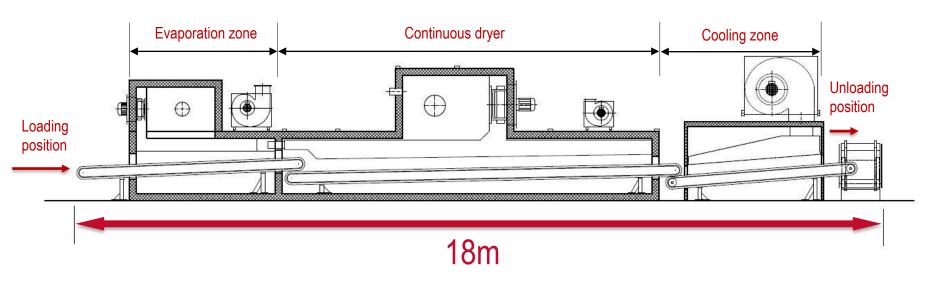
Reinhardt Ovens and cooling zones



Tunneloven with pallets, single line design with additional cooling zone; throughput up to 10t/h No mixture of parts caused in the pallet design, each batch is separated in a pallet.



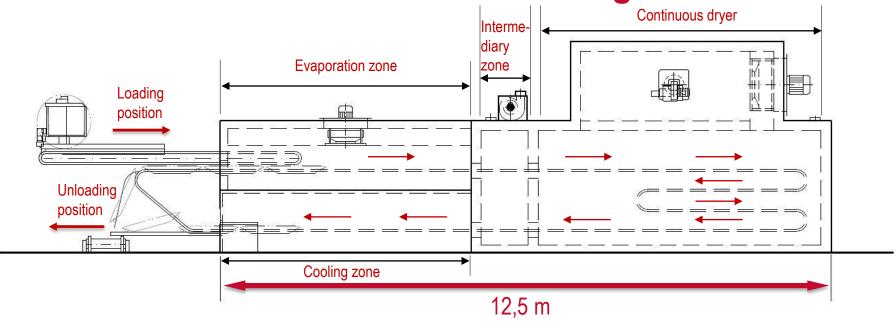
Reinhardt Ovens and cooling zones



Tunneloven with conveyor belts, in cascade – design, no heat transfer from the conveyor beweeen the zones and movement of parts after pre-heating zone up to 4 t/h.



Reinhardt Ovens and cooling zones



Our unique oven design is energy-efficient and small in footprint. The pallet oven with integrated cooling zone. Throughput up to 6t/h The pallet- transport system ensures the strict separation of your batches



Reinhardt Einbrennöfen und Kühlstrecken





