

# OLOOOA

# Paint separation: Think green! Think dry!

October 23, 2019 Bietigheim-Bissingen

www.durr.com

#### **Dürr dry separation family** Efficient – Robust – Green – Individual





Together we select the best systems for your requirements / expectations from the Dürr dry separation family

## Dürr dry separation family Think green! Think dry!



#### Your benefits

- No chemicals
- No bacteria growth
- No special skills needed
- No odor nuisance
- No paint sludge disposal
- Low sound emission
- Low opex
- Low capex



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# EcoDryScrubber – Dry overspray separation

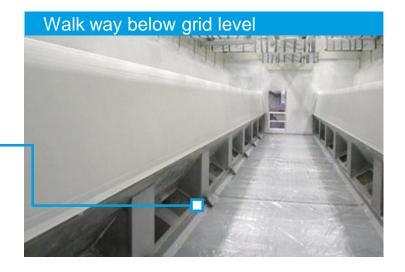


Automatic and efficient Single stage filter system Suitable for all paints Fully automatic, self-learning system Modular filter module inlets

- Exhaust air quality < 0.1 mg/m<sup>3\*</sup>
- Low running costs

Proven secondary raw material life cycle in the cement industry

Permanent access in maintenance area



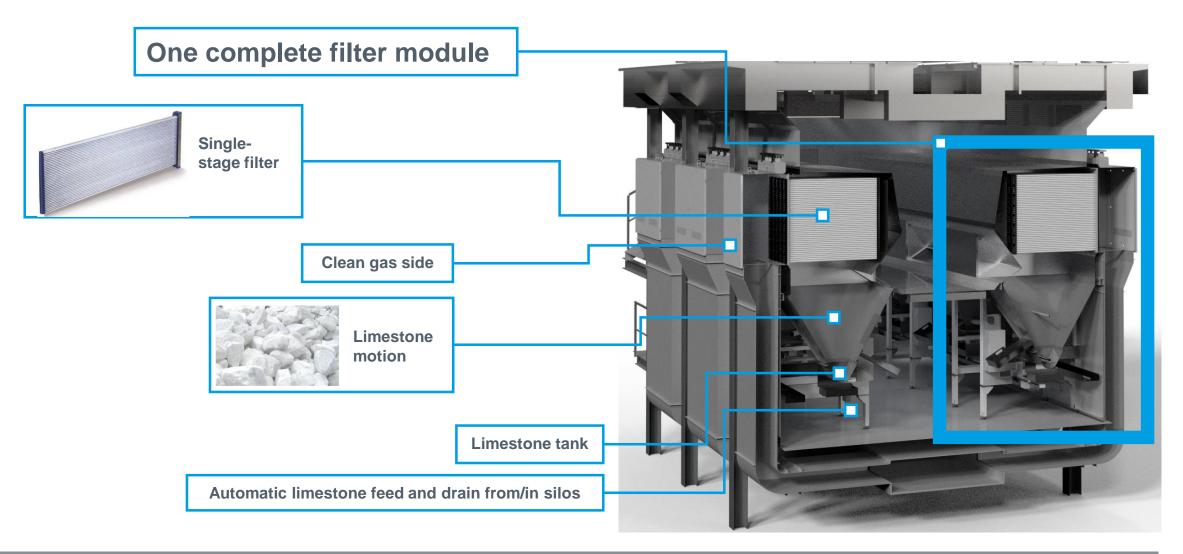
#### Maintenance area below the walk way



# EcoDryScrubber – Dry overspray separation



#### Main components of the system

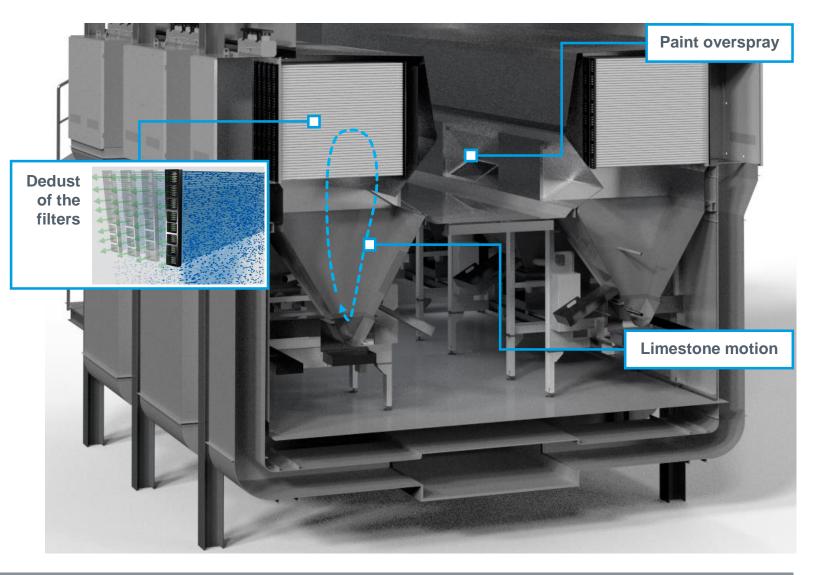


# EcoDryScrubber – Dry overspray separation



Filtration of process air with natural limestone as filtration agent

- Cycle-wise whirling of the limestone out of the tank near the filter surface
- Overspray droplets getting captured by limestone particles
- Automatic dedust of limestone-paint mixture
- Renewed whirling, capturing and dedust
- Steady control of the limestone paint saturation
- Limestone changes controlled by intelligent software



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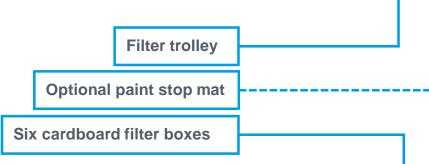
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## **Eco**Dry X – **Dry overspray separation** Simple and robust



Simple and robust

- Deep filtration inside the cardboard filter boxes
- Cardboard filter boxes as a single-use product
- Easy to maintain Manual system



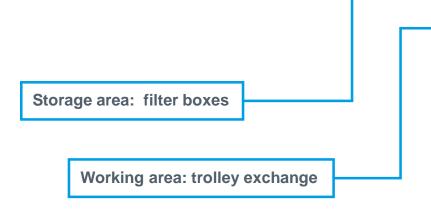
- Low running costs
- Exhaust air quality upon customer request, standard 1 mg/m<sup>3</sup>
- Easy handling: from sourcing to disposal

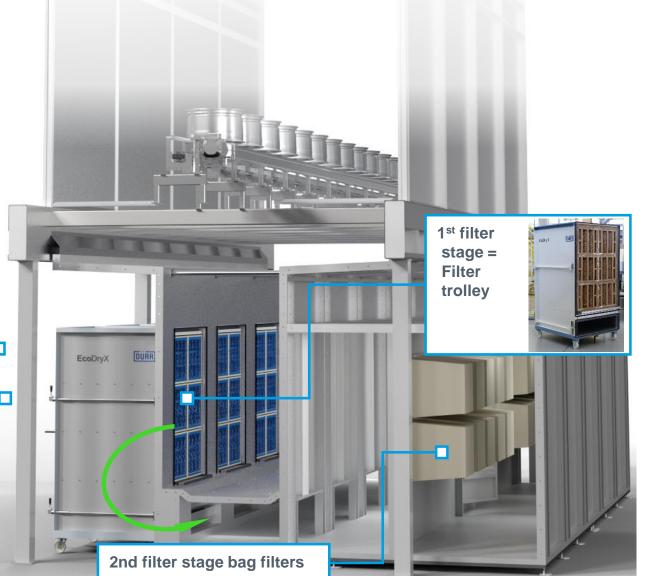


## **Eco**Dry X – **Dry overspray separation** Filtration process



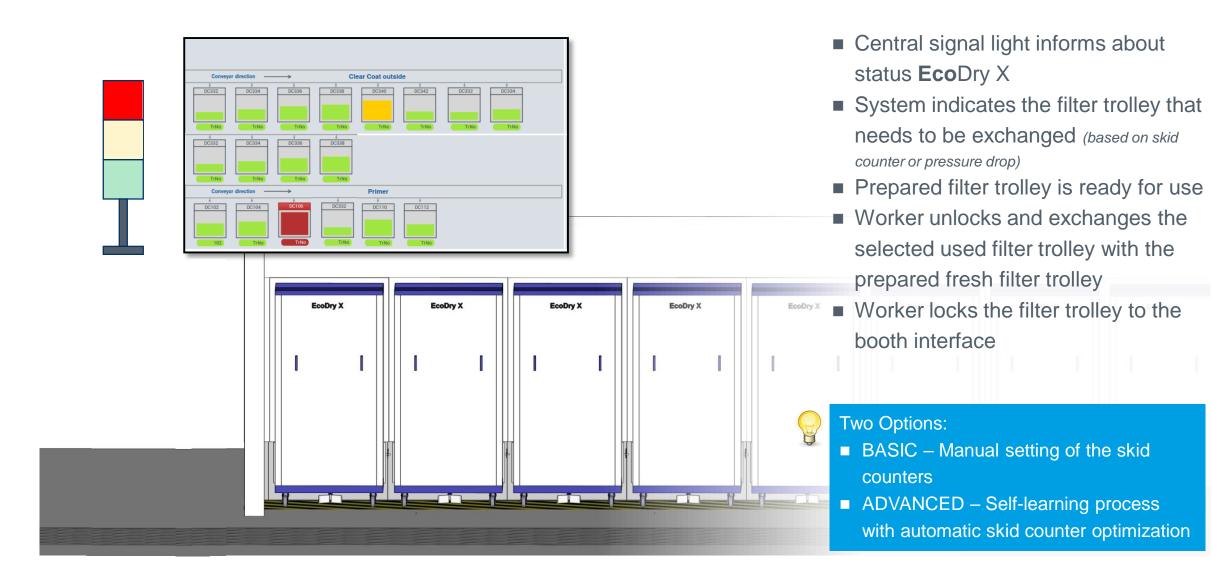
- Two filter stages
  - 1. Trolley with filter box and paint stop mat
  - 2. Bag filters (according to requested air quality)
- Trolley changes strongly depending upon overspray amount, jobs per hour and paint characteristics
  - Typical for 20 jph automotive (PR+BC+CC)
     2-4 trolleys per shift in total
  - Project-specific forecast based on an expected amount of overspray





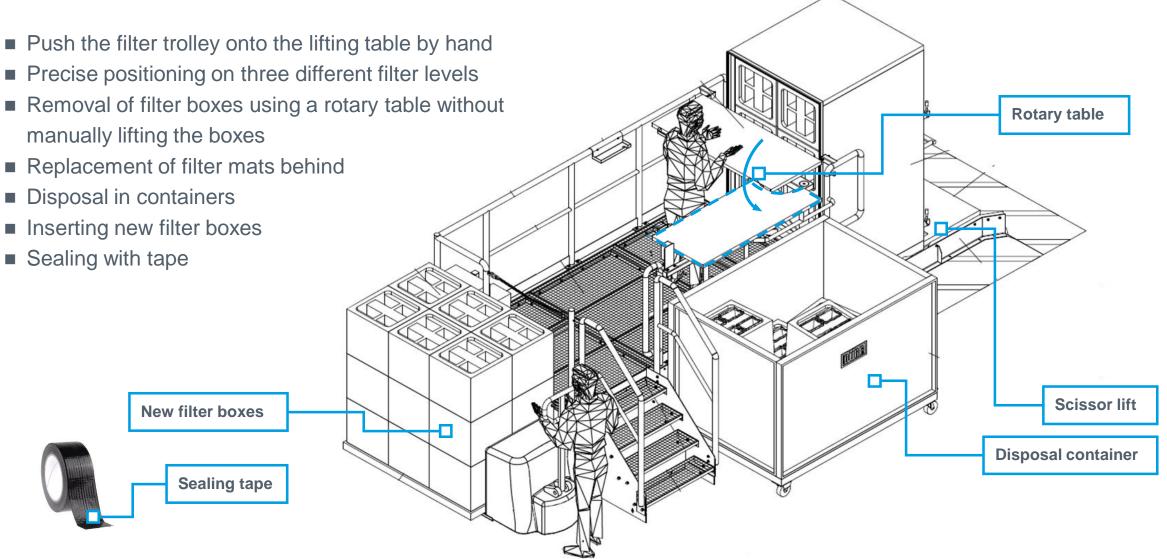
#### **Eco**Dry X – **Dry overspray separation** Changing a filter trolley





## **Eco**Dry X – **Dry overspray separation** Changing filters



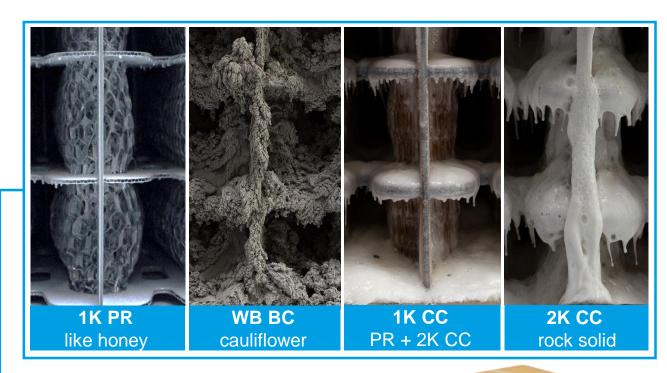


## **Eco**Dry X – **Dry overspray separation** Dürr filter box X500PV



- In-house development guarantees the best possible efficiency and cost-effectiveness
- Continuous further development for our customers
- Typical paint capacity filter box\*:

1K Primer	18 - 20 kg
WB BaseCoat	8 - 10 kg
1K ClearCoat	18 - 20 kg
2K ClearCoat	13 - 15 kg



- Paint tests for better estimation of the filter box performance
- Estimation of operating costs possible

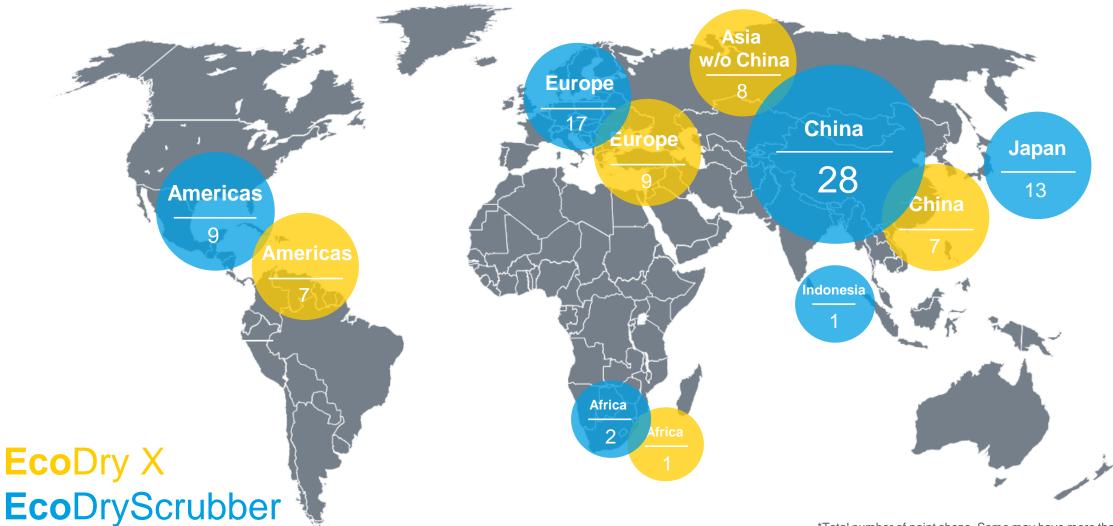
\* Note

The information on the absorption capacity is based on empirical values from the Dürr Test Center in Bietigheim, as well as automotive customer plants.

These are average values. The final filter consumption depends on the area to be painted, the paint material, the application efficiency, the car body geometry (passenger car), the air conditions, etc. The final filter consumption depends on the surface to be painted. Since all these parameters fall outside Dürr's sphere of influence, the exact filter consumption cannot be guaranteed.

#### Dürr dry separation family References





\*Total number of paint shops. Some may have more than one line

## **Dürr** dry separation family Think green! Think dry!

#### **Benefits of the Dürr – DrySeparation family**

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#### **Eco**DryScrubber



Separating agent	Natural limestone	Cardboard
Emissions	<< 0.1 mg / Nm <sup>3</sup>	Upon cust
Pressure drop	Constant	Increasing
Operation and maintenance	Qualified personnel	Instructed
Paint 2 <sup>nd</sup> lifecycle	Recycling in cement industry	Thermal re
Features	<ul> <li>Perfect for fast drying paints</li> <li>Fully automatic</li> <li>Past for high volume paint shops</li> </ul>	<ul> <li>Simple, movab</li> <li>Bost root</li> </ul>

Best for high-volume paint shops

## EcoDry X



#### rd filter boxes

stomer request

d personnel

recycling

- e, stable process with ble filter trolleys
- Best result with minimal effort

# www.sli.do Your questions are welcome!



Open

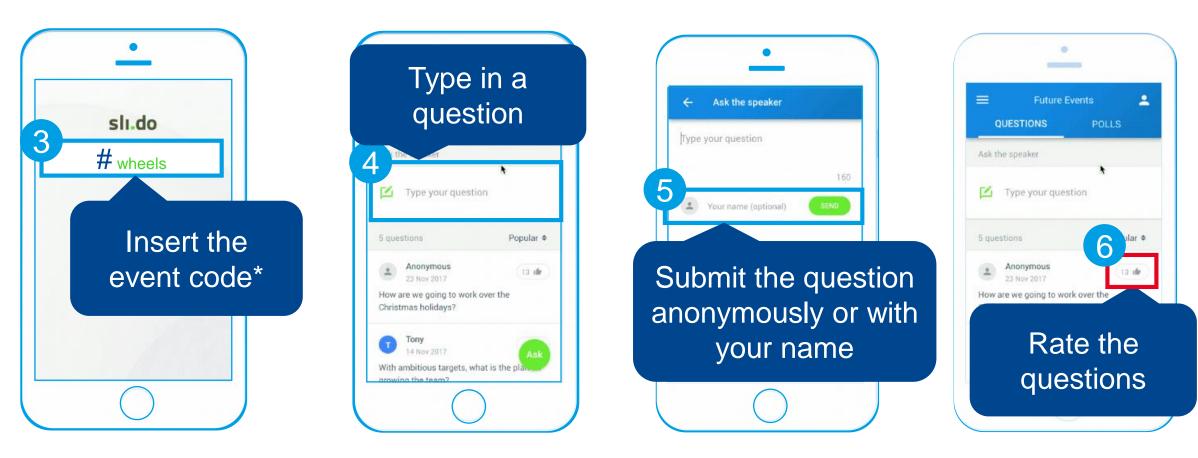
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#### \*Event code: wheels

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# Wheel painting conference Think green! Think dry!

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