

“INNOVATIVE ASPHALT PLANT TECHNOLOGY FOR SUSTAINABLE RURAL ROADS”



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25th May 2022

Agenda

- **Introduction – Ammann India**
- **Green Technology for Rural Roads – Waste Plastic**
- **Green Technology for Rural Roads – Cellulous Fibre**
- **Green Technology for Rural Roads – RAP**

Ammann Group

150 FAMILIENUNTERNEHMEN
Years of Innovation Since 1869
In der 6. Generation

WELTWEIT
AKTIV



PRODUCTIVITY PARTNERSHIP FOR A LIFETIME



TRANSFORMING MATERIALS TO INFRASTRUCTURE



180+ Produkte

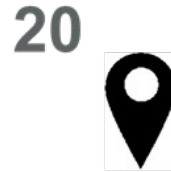
NACHHALTIGKEIT



RAP | ECOdrop | ServiceLink



MANUFACTURING
FACILITIES



GRUPPEN-
GESELLSCHAFTEN



DEALERS AND
SALES PARTNERS



ANGESTELLTE

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Manufacturing facilities & Center of Competence

AHMEDABAD



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Ammann Sales & Service offices

Expanding in key locations



Resident engineers Operating from Pune, Varanasi, Rajmundri, Cochin, Calicut, Hubli, Jabalpur, Gorakhpur, Kannur, Alwar, Mahendragarh,

Head Quarters		
□ Factory (Gujarat)	: 1	
□ Centre of Competence (Gujarat)	:	
□ Training Centre	: 1	
Regional Offices		
□ Current	:	
Sales & Service Offices		
□ Current	: 10	
□ Proposed	: 3	
Logistics		
□ L1 Warehouse	: 1	
□ L2 Warehouse (Proposed)	: 3	
□ L3 Warehouse (Current)	: 7	
□ L3 Warehouse (Proposed)	:	
□ Machine Re-build Center	: 4	
	1 Operational	
	3 Proposed.	



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Ammann Product Range – Solutions for India

Village/Municipal road/Border Roads



State Highway



National Highway & Expressway



Mechanical Paver



Wheeled Sensor Paver



Mid Size Track Paver



Large Track Paver



Continuous Plants 60-120 TPH



ANP Series 100-160 TPH



Value Tec Series 80-260 TPH



ABA Series 140-320 TPH



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Ammann India Training Academy



Ammann Asphalt - Plant Simulator



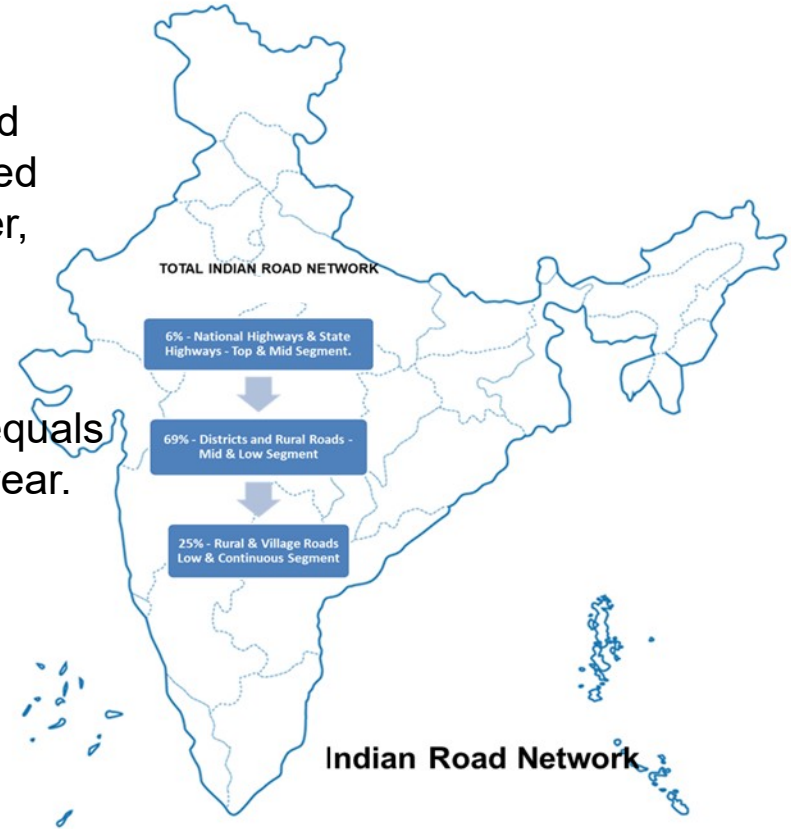
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Approx. need of waste plastic annually for Indian road

Example:

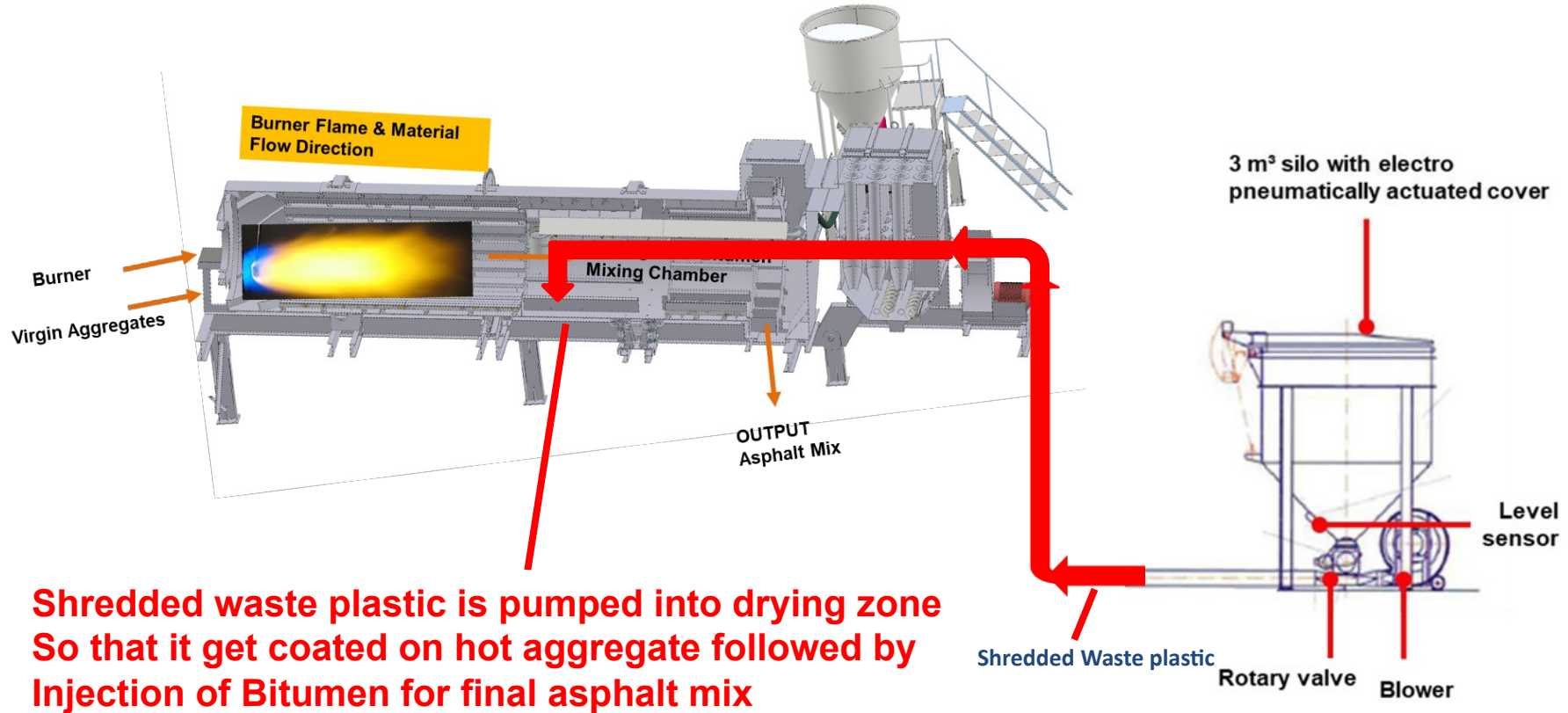
- Approximately 6 Million Tons of Bitumen Consumed per year out of which approx. 0.6 Million Ton is used for Emulsion, and 0.4 Million Ton is used for Primer, Cutback etc. Approx. **5 Million Tons** of Bitumen used for Asphalt Mix.
- If we use **8% of Waste Plastic** in asphalt mix that equals to **0.4 Million Tons** of Waste Plastic required per year.
- Waste Plastic can be easily retrofitted in Ammann
 - ❖ **Parallel Flow Drum Mix Plant**
 - ❖ **Counter Flow Drum Mix Plant**
 - ❖ **Asphalt Batch Mix Plant**



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Parallel Flow Drum Mix Plant

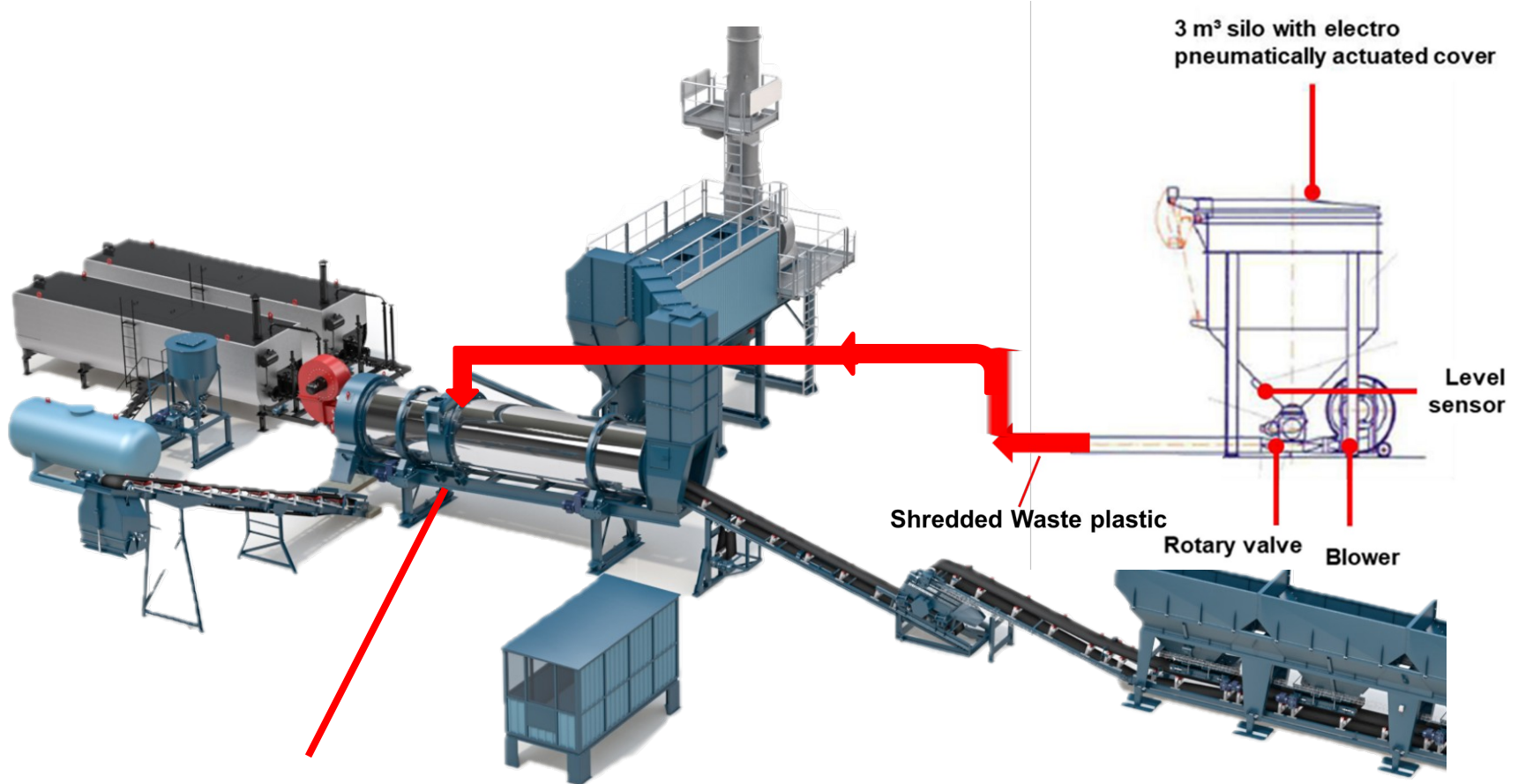


**Shredded waste plastic is pumped into drying zone
So that it get coated on hot aggregate followed by
Injection of Bitumen for final asphalt mix**

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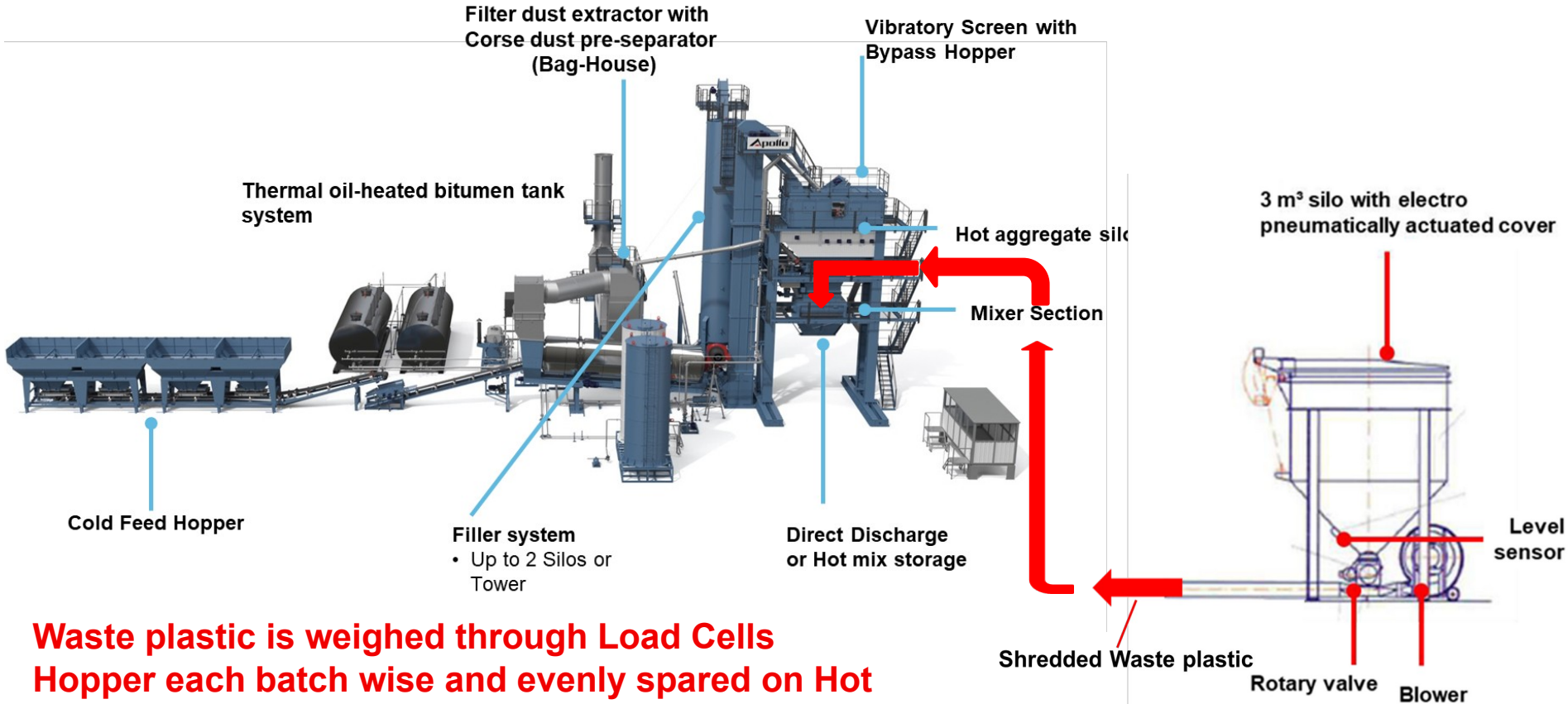
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Counter Flow Drum Mix Plant



“Shredded waste plastic will be inserted via special Ring post burner flame on “ Hot Aggregate”

Asphalt Batch Mix Plant



Waste plastic is weighed through Load Cells Hopper each batch wise and evenly spared on Hot Aggregates into the Mixer followed by Bitumen injection to have the final Asphalt Mix

Asphalt Batch Mix Plant

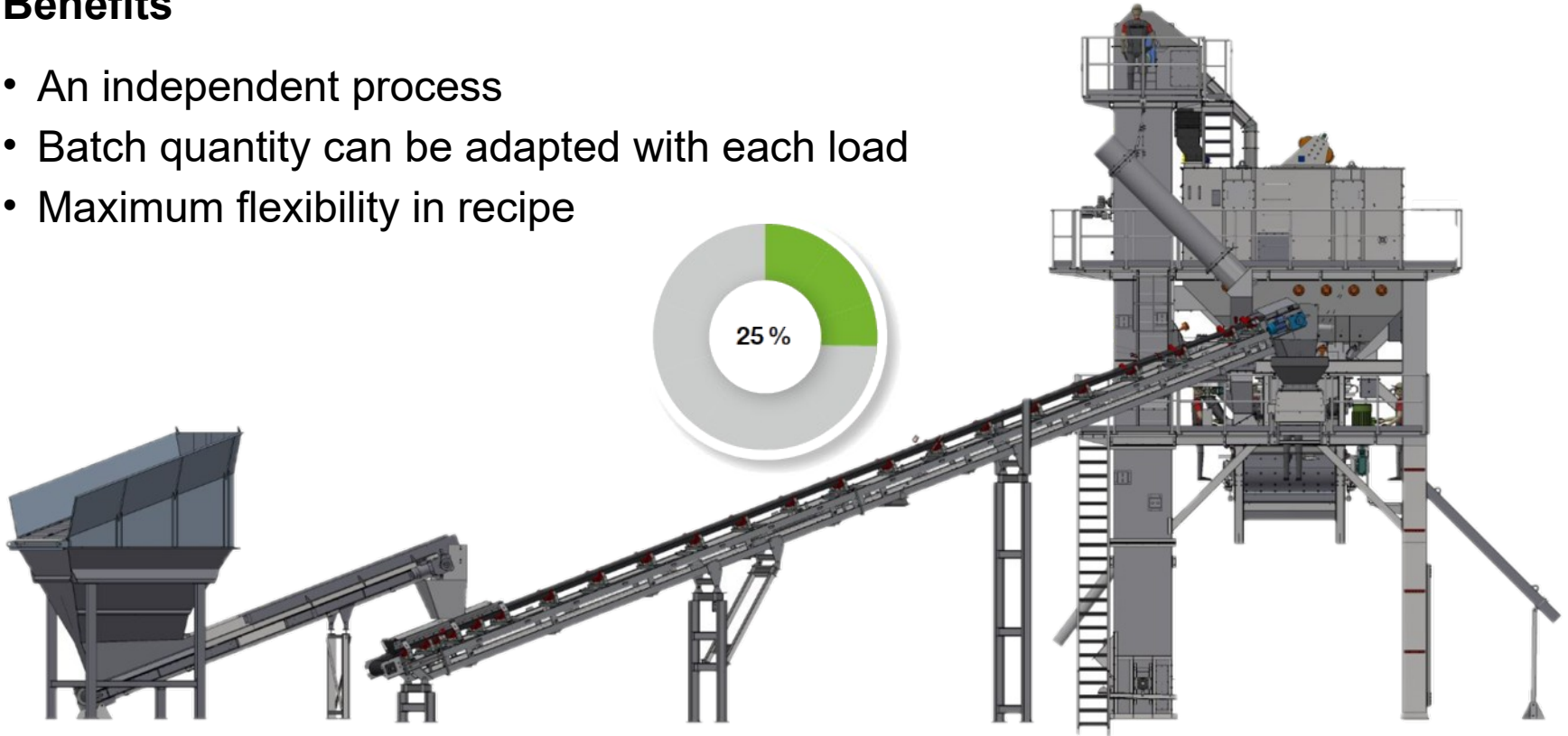


Dosing line of
Waste Plastic & SMA

25% COLD RAP ADDITION

Benefits

- An independent process
- Batch quantity can be adapted with each load
- Maximum flexibility in recipe



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