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NATURE TECH
Enviro Protection Ltd.

Since 1993
ZHENXING DRYING
ZHEN GAN 振干®

MULTI LAYER MESH BELT DRYER

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AN OVERVIEW

Naturetech aims to improve the state of water in the world by bringing innovation to the forefront of the fight against pollution.

With vast experience and knowledge base, we along with our partners strive to bring you an economical and robust solution for optimal results. We operate on a custom design and delivery approach to ensure complete customer satisfaction while delivering organic results.

With our focus on Wastewater, we encourage all the stakeholders in the cycle (Govt, Private Enterprise and Households) to join us take the next step towards water recycling.

- Strong team of Professionals
- Experts from diversified field
- In house technical-commercial resources
- Tie up with financial institutions
- Close ties with Government and Public-Private organizations
- International Channel Partners for various technologies

WHY SLUDGE TREATMENT ?

Environmental compliance

Reuse-Reduce-Recycle

Saving in transport and disposal costs.

Increase in the storage ability of dried sludge

Elimination of problems related to handling paste like substance

Ideal solution for converting waste into fuel or fertilizer.

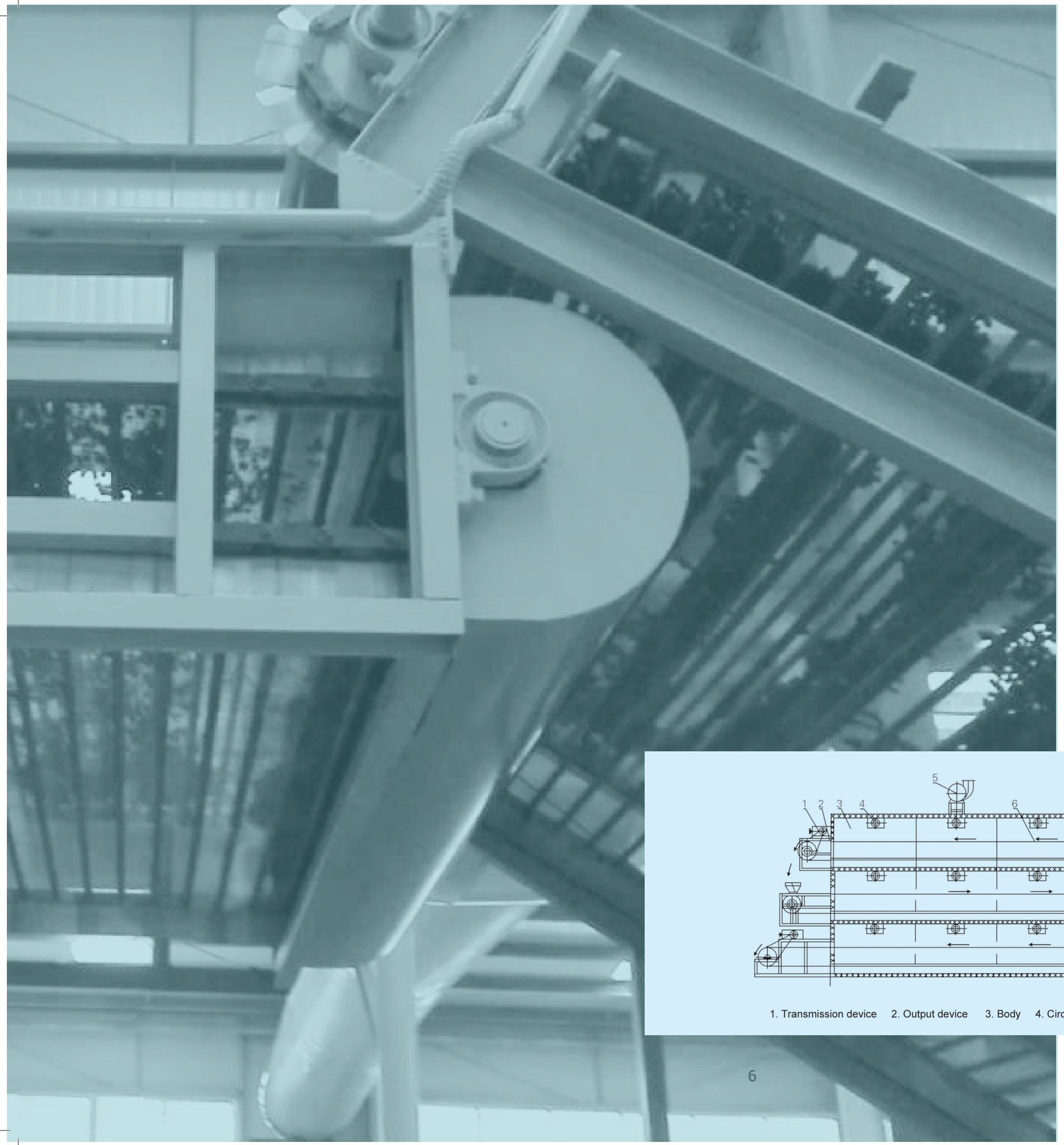
WHY MESH BELT MULTI LAYER DRYER?

DESIGN

- Modular and simple design
- Reuses waste gas, no need for fuel furnace for process
- Flexible configuration
- Flexible range of inputs, can handle different grades of waste
- Optimal for space constraints.
- Air quality, heating temperature and other dynamics can be adjusted in order to improve drying quality
- Optimized Safety
- Significantly less pollution

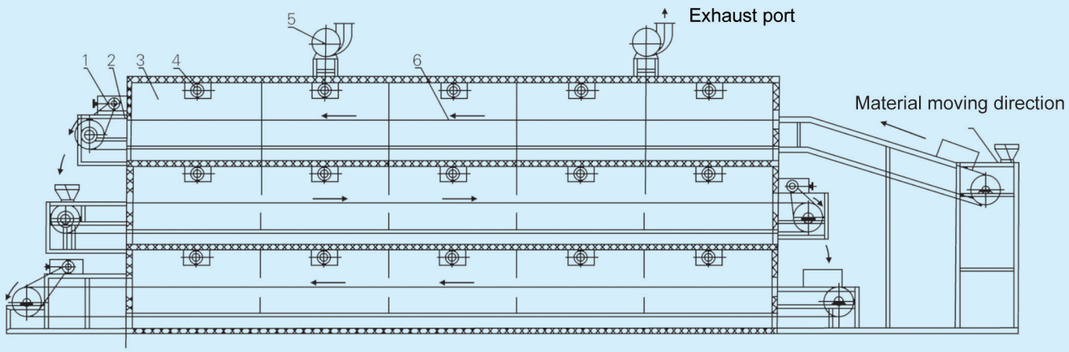
PRODUCT

- Over 90% dry solid content
- Uniform treatment produces high quality end product
- Granulated – dust free particles and hygienic
- Easy to store and dose



WORKING PRINCIPLE

This technology is gaining popularity across the globe. It is a lower temperature system and is not fueled by burning furnace but in contrast, the system exchanges its heat to thermal fluids, hot water or flue gas to air heat exchanger. It takes dewatered cakes and distributes them on a specially designed feeding belt. The uniformity of the cake distribution on the belts along with the slow movement optimizes the process by significant dust reduction in dust generation and quantity of fines. The Multi Layer Mesh Belt Dryer is a very flexible equipment since it can be custom-made based on size requirements and capacity. It also has the ability to work with lower and upper grade waste heat.



1. Transmission device 2. Output device 3. Body 4. Circulation Blower 5. Exhaust fan 6. Mesh belt 7. Input device

Single-Layer Mesh Belt Dryer

Item \ Model	DW-1.2-8	DW-1.2-10	DW-1.6-8	DW-1.6-10	DW-2-8	DW-2-10	DW-2-20
Drying Unit (Qty)	4	5	4	5	4	5	10
Mesh Belt (m)	1.2			1.6		2	
Drying Length (m)	8	10	8	10	8	10	20
Material Thickness (mm)	10 - 60						
Drying Temperature (℃)	80 - 140						
Steam Pressure (MPa)	0.2 - 0.6						
Steam Consumption (kg/h)	120-300	150-375	150-400	188-500	188-500	225-600	450-1200
Drying Time (h)	0.2-1.2	1.25-1.5	0.2-1.2	0.25-1.5	0.2-1.2	0.25-1.5	0.5-3
Evaporation Capacity (kg/Kg/h)	60-180	80-200	80-220	100-250	100-250	120-300	240-600
Total Power (kw)	11.4	13.6	14.6	18.7	19.7	24.5	51
Overall Dimensions (m)	9.56×1.46×2.5	11.56×1.46×2.5	9.56×1.6×2.4	11.56×1.6×2.4	9.56×2.32×2.5	11.56×2.32×2.5	21.56×2.32×2.5
Total Weight (kg)	4580	5800	5308	6400	6208	7580	14000

Three-Layer Mesh Belt Dryer

Item \ Model	DDW3-1.2-8	DDW3-1.2-10	DDW3-1.6-8	DDW3-1.6-10	DDW3-2-8	DDW3-2-10
Mesh Belt (m)	1.2		1.6		2	
Drying Length (m)	8	10	8	10	8	10
Material Thickness (mm)	10 - 60					
Drying Temperature (℃)	80 - 120					
Steam Pressure (MPa)	0.2 - 0.5					
Water Evaporation (kg/h)	80 - 220	100 - 320	90 - 380	120 - 388	130 - 400	160 - 580
Steam Consumption (kg/h)	42kg steam evaporates 1kg water (vegetables and Chinese herbal)					
Total Power (kw)	21.2	21.2	21.2	22.7	22.7	22.7
Overall Dimensions (m)	11×1.6×2	12.5×1.6×2	11×2.0×2	12.5×2.0×2	11×2.4×2	12.5×2.4×2
Total Weight(kg)	3800	4800	4480	4580	4280	6080

Five-Layer Mesh Belt Dryer

Item \ Model	DDW5-1.2-8	DDW5-1.2-10	DDW5-1.6-8	DDW5-1.6-10	DDW5-2-8	DDW5-2-10
Mesh Belt (m)	1.2		1.6		2	
Drying Length (m)	8	10	8	10	8	10
Material Thickness (mm)	10 - 50					
Drying Temperature (℃)	80 - 120					
Steam Pressure (MPa)	0.2 - 0.5					
Water Evaporation (kg/h)	160 - 260	200 - 350	210 - 320	240 - 400	260 - 450	290 - 550
Steam Consumption	42kg steam evaporates 1kg water (vegetables and Chinese herbal)					
Total Power (kw)	21.2	21.2	21.2	22.7	22.7	22.7
Overall Dimensions (L×B×H) m	11×1.6×2.7	12.5×1.6×2.7	11×2.0×2.7	12.5×2.0×2.7	11×2.4×2.7	12.5×2.4×2.7
Total Weight (kg)	3580	4780	4400	5550	5350	6880

Seven-Layer Mesh Belt Dryer

Item \ Model	DDW7-1.2-8	DDW7-1.2-10	DDW7-1.6-8	DDW7-1.6-10	DDW7-2-8	DDW7-2-10
Mesh Belt (m)	1.2		1.6		2	
Drying Length (m)	8	10	8	10	8	10
Material Thickness (mm)	10 - 50					
Drying Temperature (℃)	80 - 120					
Steam Pressure (MPa)	0.2 - 0.5					
Water Evaporation (kg/h)	120 - 300	150 - 400	150 - 375	190 - 475	200 - 580	240 - 600
Steam Consumption	≤2kg steam evaporates 1kg water (vegetables and Chinese herbal)					
Total Power (kw)	27	27	40.5	40.5	40.5	49
Overall Dimensions (L×B×H) m	11×1.8×3.5	12.5×1.8×3.5	11×2.0×3.5	12.5×2.0×3.5	11×2.4×3.5	12.5×2.4×3.5
Total Weight (kg)	4800	5780	5400	6580	6350	7980

Notes: The calculation of water evaporation is based on drying Chinese herbal.

Notes:

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