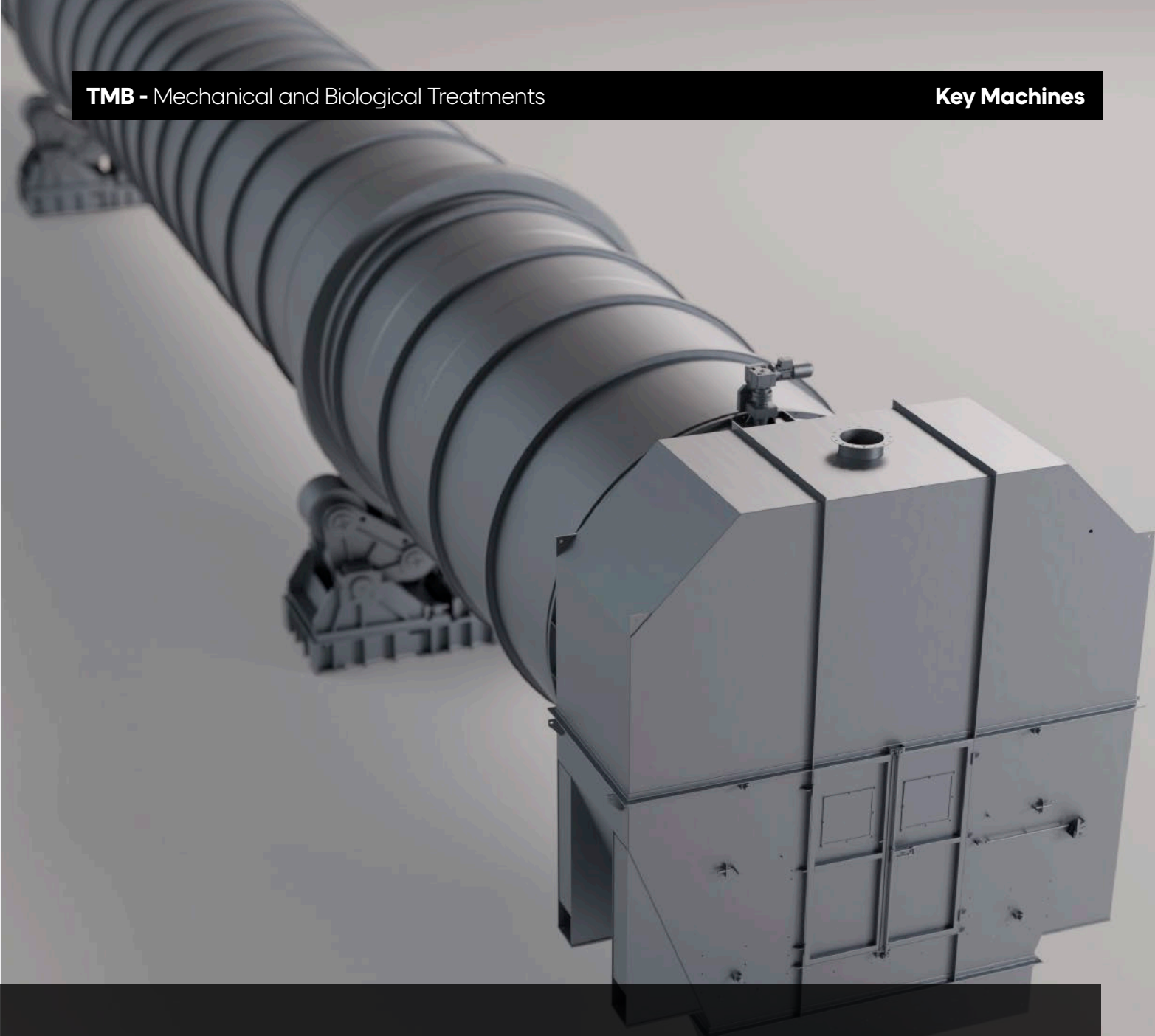




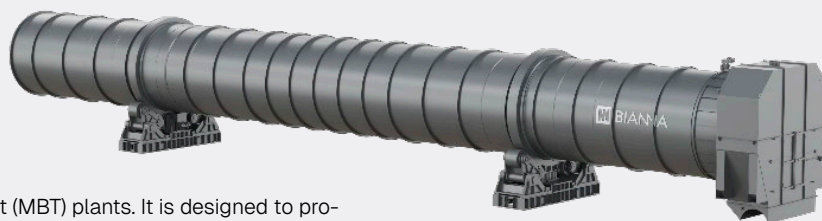
N BD
Biodrum

Power and consistency in sludge stabilization, increasing the calorific value and the process's profitability.

N BIANNA



N BD Biodrum



A key piece of equipment in mechanical-biological treatment (MBT) plants. It is designed to process the organic fraction of waste using robust and reliable technology that facilitates accelerated aerobic degradation and prepares materials for subsequent recovery.



DRASTIC REDUCTION IN REJECTION

It reduces the amount of materials sent to landfills by sanitizing and reducing the volume of the organic fraction.



SUPERIOR HOMOGENIZATION

It optimally blends the organic fraction with lignocellulosic materials (paper, cardboard, natural textiles).



AIR-DRYING

It reduces the wet content of the waste by up to 10% through a thermal biological process.



INCREASE IN PCI

Increasing the dry matter content improves the calorific value of materials used to produce fuel.



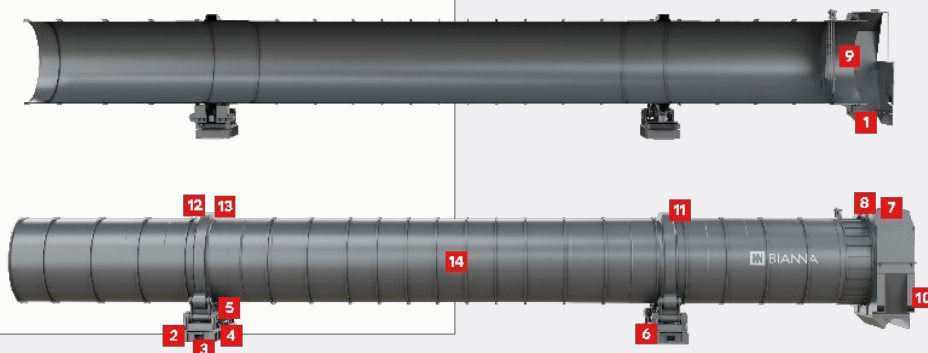
OPERATIONAL SIMPLICITY

Simple mechanical technology that ensures high availability and durability.

■ Components

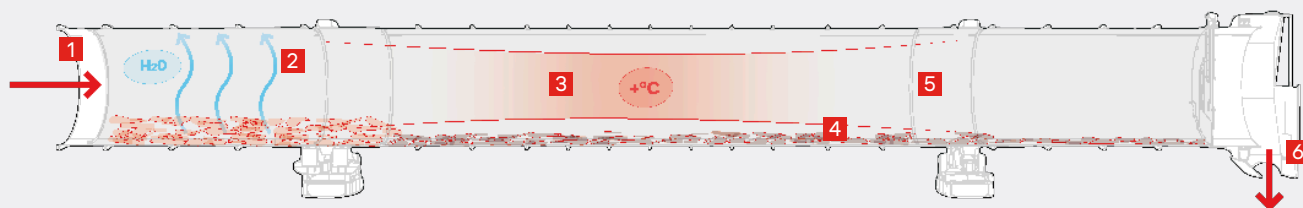
- 1 Fan
- 2 Guide rollers (upstream side)
- 3 Pinion
- 4 Gearbox
- 5 Motor
- 6 Guide rollers (rear side)
- 7 Equipment discharge hood
- 8 Hydraulic system discharge door
- 9 Discharge trommel
- 10 Discharge structure
- 11 Pista (lado aguas abajo)

- 12 Channel (upstream side)
- 13 Curnow
- 14 Rotating cylinder



Key Machines

- 1 Feed hopper
- 2 Water evaporation (H₂O)
- 3 Start of organic degradation
- 4 Secondary air addition
- 5 100% bag opening
- 6 Material discharge



How It Works

The Biodrum is a cross-cutting technology that is essential in municipal waste treatment facilities. It is recommended for: Compost production: an essential preliminary step for obtaining high-quality compost.

Pre-treatment for anaerobic digestion

Prepares biodegradable material that is optimal for digesters.

RDF production

Generation of Refuse-Derived Fuel (both "Green RDF" and plastics).

Energy recovery

fuel conditioning for gasification or pyrolysis processes.

Valuation

The BD-Biodrum helps maximize the recovery of the organic fraction, improves the calorific value of the resulting material, and reduces the amount of waste sent to landfills, ensuring more sustainable and cost-effective waste management.

Models

Models	Inner Diameter (mm)	Power (kW)
BD 2.5/25	2.000	45
BD 3.0/30	3.000	55
BD 3.6/32	3660	90
BD 3.9/35	3.880	145
BD 4.2/50	4.250	250 (máx.)h

At Bianna, we are a leading multinational company specializing in the engineering, design, manufacturing, and financing of advanced technological solutions for waste management, treatment, and recovery.

With over 40 years of experience and more than 1,100 projects and references worldwide, we transform waste from an environmental liability into an economic asset. We are committed to driving the circular economy and leading the decarbonization of strategic sectors, demonstrating that sustainable waste management will be profitable—or it won't be at all.

Full-service technology provider

We offer “turnkey” technology that integrates 360° solutions within our core technology areas:

Service ecosystem

We have designed a comprehensive ecosystem of services built around our technology, designed exclusively to maximize the return on your investment, ensure the viability of your projects, and guarantee your peace of mind in the long term

Mechanical and Biological Treatments MBT Equipment and facilities for material recovery 	Thermo Value Solutions TVS Thermal processes for combustion, drying, and energy recovery 	Bianna Renting Services BRS Financial flexibility related to your operations 	Bianna Green Ways BGW The place where Bianna technologies come 	Bianna Aftersales BAS Comprehensive solutions for optimal operations 
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Our technology creates real value by reducing our environmental impact and ensuring the sustainability of the planet and people, both inside and outside Bianna.

Smart waste **Profit energy**



More information

BIODRUM



bianna.com