



# FEED AND BIOFUEL PELLET MILL TYPE BIOMAX

The BioMax pellet mill offers a robust and easy-to-maintain design for high capacities and consistent performance at low operating costs. The BioMax pellet mill consists of two separate main sections – pelleting chamber and drive train. The pelleting chamber is built with a heavy duty main shaft driving the die and a heavy duty cast pellet

chamber door, mounted on a motorized frame for easy access. The pellet chamber door fully supports the rolls. This simplifies the design and makes the BioMax a rugged and durable machine with easy operation and low operating costs. The unique, patented infeed system secures optimum material distribution and improved energy efficiency.

The drive train consists of a main motor and a stand-alone high-quality gearbox, which allows the flexibility to achieve the optimum die speeds required for high working loads. The gearbox is equipped with an oil lubrication system with filtered air/oil cooling as standard.

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ENGINEERED SUCCESS

## UNIQUE, PATENTED INFEED SYSTEM

The raw material is distributed to the rolls by a separate suspended, motorized feeding unit with 3 separate inlet screws delivering the product directly into the nip between the rolls and die for optimum production.

## HYDRAULIC ROLL ADJUSTMENT

The rolls are equipped with hydraulic cylinders, which have position sensors:

- for easy and precise roll adjusting
- to help prevent die damage during idle running
- to keep the roll in the optimum position – securing optimum running conditions

## SAFETY STOP

The BioMax hydraulic system is designed to open all roll adjusting cylinders automatically upon any shear pin failure. This provides increased protection against damage.

## TAPER DIE FIT

The pellet mill has an operator-friendly conical bolt suspended die fit. The auto-piloting effect makes die change easy and reduces the time required. The die is made of high-quality steel and is symmetrical, allowing it to be reversed for extended lifetime.

## OPTIONAL ACCESSORIES

- Automatic grease lubrication for roll bearings and main shaft bearings
- Water cooling of the roll shafts for extended bearing life
- Conditioner with steam addition provides optimum retention time for specific capacity requirements
- Computerized control system for process optimization.

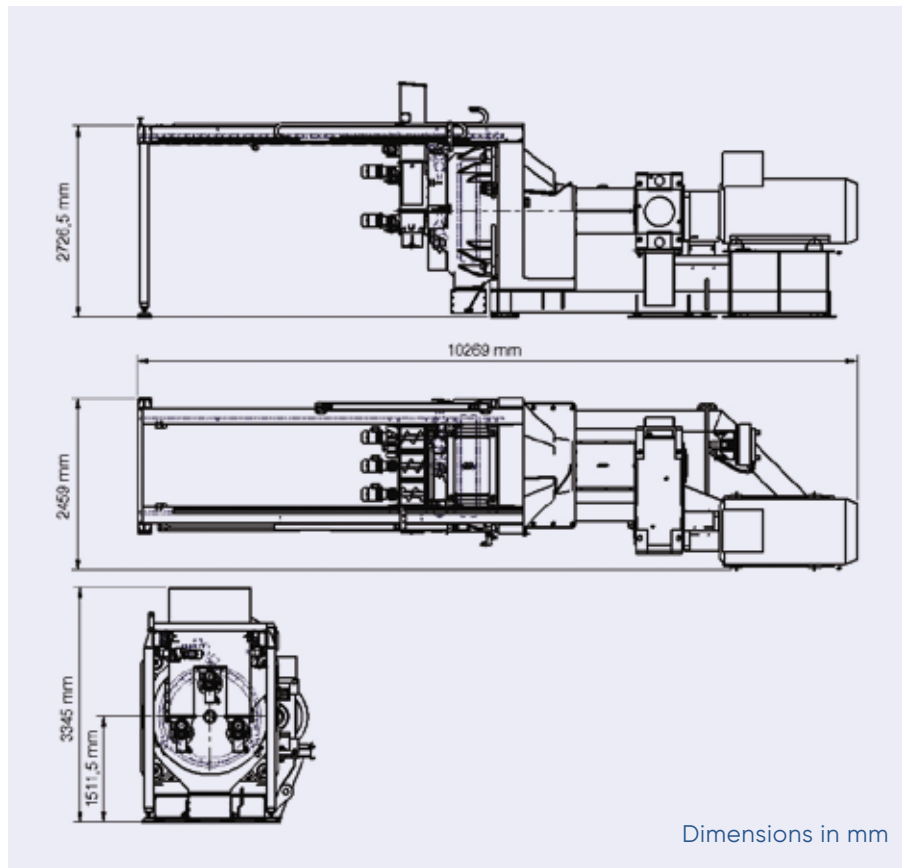
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## TECHNICAL DATA

<b>Main motor</b>		up to 800 kW	50 Hz/60 Hz
			1,480/1,780 rpm
<b>Inlet screw</b>	Stainless steel	3 x 1.5 kW	350 rpm
<b>Oil cooler</b>		1.5 kW	
<b>Die</b>	Dimension	Inner diameter	Ø 1,200 mm
		Effective press width	190 mm
		Effective press area	0.72 m <sup>2</sup>
		Die velocity	6 m/sec.
<b>Press rolls</b>	Water cooling	Numbers	3
		Outer roll diameter	520 mm
<b>Total weight (three parts in total)</b>		Incl. main motor and screw feeder	33,000 kg



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