WOOD PELLET MILL

FEATURES

- Special forged-steel bearing supports
- Die and roller assembly for biomass materials
- Temperature and speed sensor applications for use in roller mechanisms
- Bolted structure for easy replacement of worn-out parts
- Maximum flexibility and diversity
- Spare parts and customer service

BIOMASS

YEMMAK

WOOD PELLET MILL

Yemmak Biomass Pellet Mills provide high performance at low operating costs. With their robust and easy-maintenance design, Yemmak Biomass Pellet Mills are produced for intensive biomass operations. They are also used for pelleting difficult materials that require high pelleting power.

Yemmak pellet mills allow high-quality pelleting of wood and wood derivatives with a production capacity ranging from 500 to 5,000 kg/s. With robust design features that include high pelleting forces, high-quality materials, an automatic lubrication system that can be controlled online, and sensors for safe operation, Yemmak Pellet Mills lead the industry with their low maintenance costs and high energy efficiency.

Wood Pellet

Straw Pellet

USAGE AREAS

- Sawdust pelleting plants

DIES AND ROLLERS

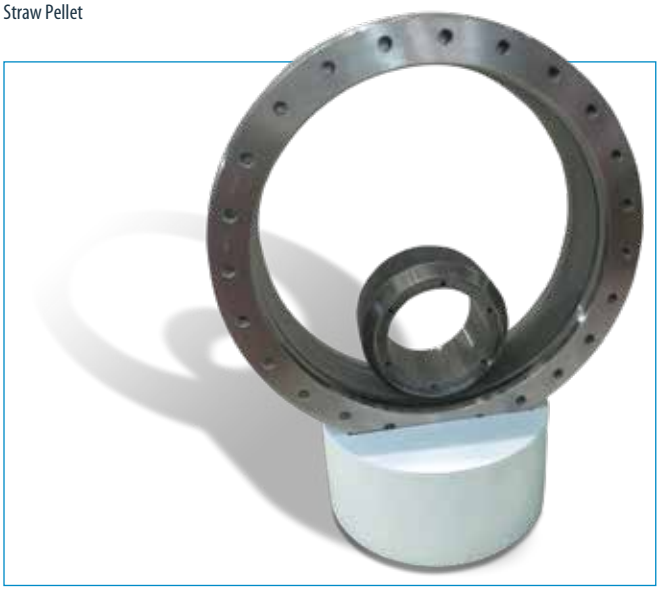
Dies and rollers are made in Germany from high-quality steel alloys.

COVER

The mill cover is made entirely of stainless steel. Two pellet-cutting blades are mounted on the frame extension. This allows cover to be safely opened and closed without changing the blade adjustment.

CONDITIONER

The paddles on the conditioner shaft are adjustable to ensure best steaming results. This results in a maximum conditioning time. The pellets can be double-coated to fit customer's needs. The conditioner is made entirely of stainless steel.



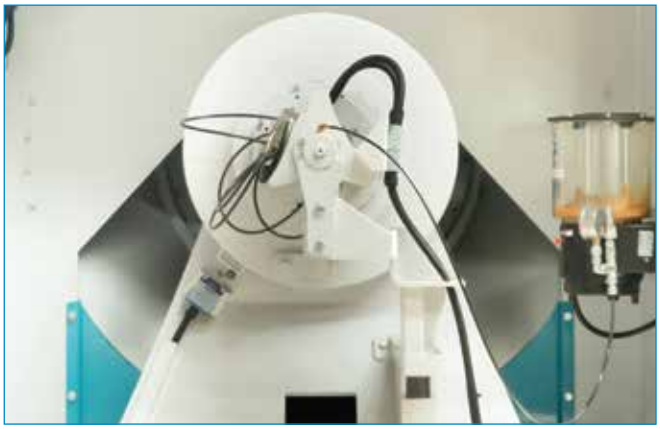
SENSOR APPLICATIONS FOR SECURITY

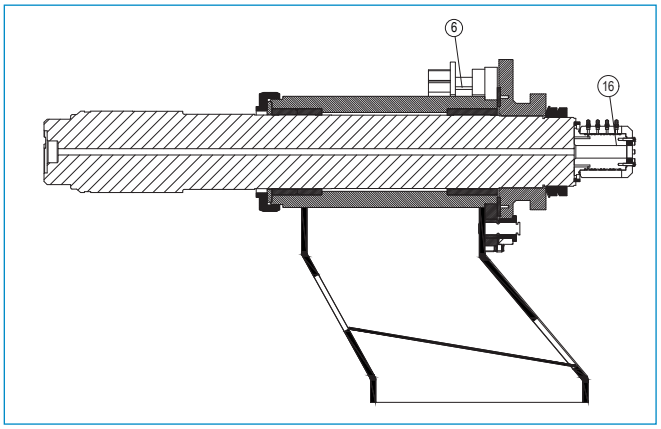
In general, the most important parameter that determines the character of the machine, especially in process machines, is the physical and chemical properties of the material that will be processed on the machine. Materials with wood and its derivatives are processed in Yemmak wood pellet mills. Because of its chemical properties, Wood has hydrogen and carbon elements in its structure. For this reason, although the self-combustion temperature is around 270 °C, in the event of any flame or spark, this temperature comes to much lower degrees.

Therefore, the temperature in the pressing area must be kept under control. With special temperature sensors mounted in the eccentric shaft where the bearings are bearing, the machine protects itself when it controls the ambient temperature and rises above the set value.

IMPROVED AUTOMATIC LUBRICATION SYSTEM

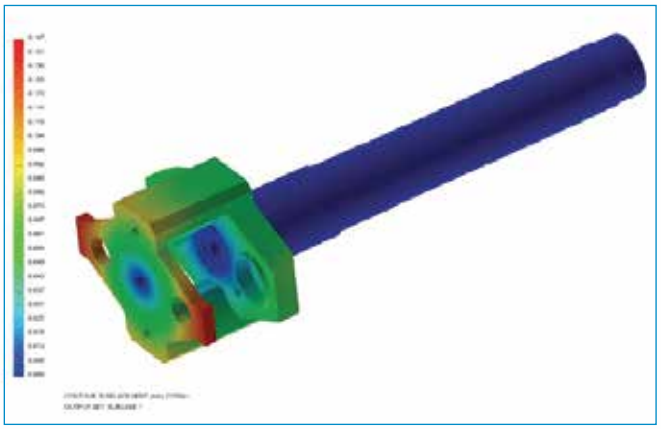
As the machine works with heavy vibration and under irregular loads, regular lubrication of bearing supports is essential. The automatic lubrication system in the machine eliminates the need for an operator and specially designed lubricant return grooves provide the appropriate amount of lubricant. The lubrication system can be controlled online via the operator panel.





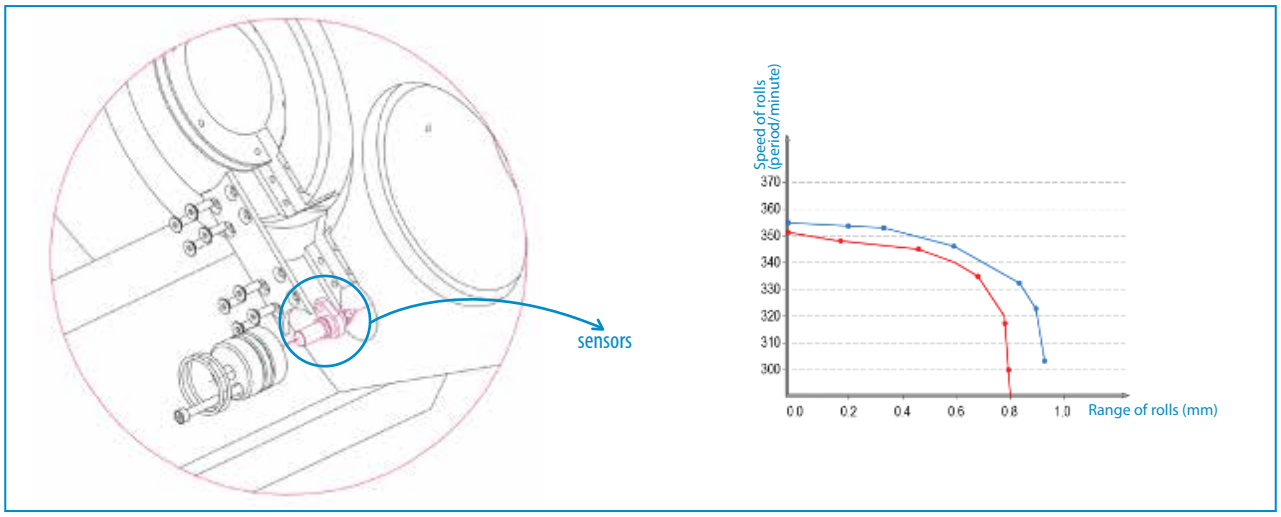
DESIGN WITH INCREASED STRENGTH AND ROBUSTNESS

Wood and wood product pelleting can create complications such as irregular impact loads and heavy vibrational impacts on the machinery. The bearing supports and die connections, which generally malfunction due to mechanical deformations, are cast from forged steel and with high safety coefficients to meet strength enhancement targets.

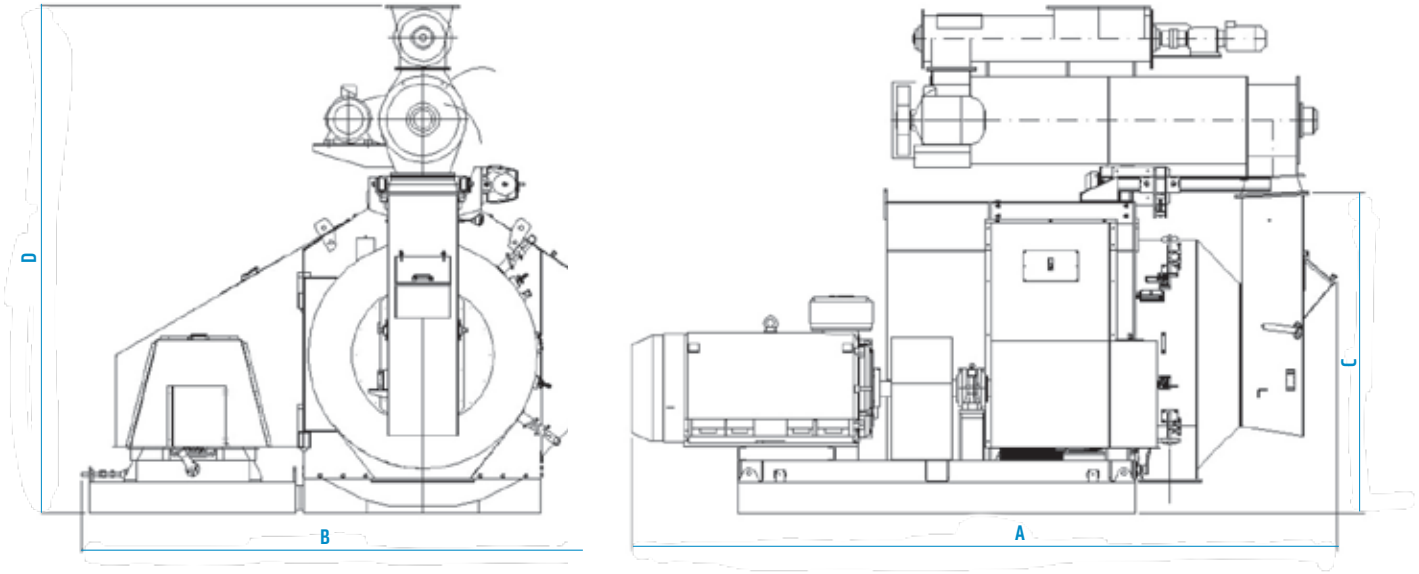


ROLLER SPEED MONITORING SYSTEM

The distance between die and the roller in the of the milling section of the machine is ideally between 0 to 1 millimeter. Research shows that as the distance approaches 1 millimeter, the amount of energy needed for pressing increases up to 1.2 times that of normal. The machine presses using a single die and two separate rollers. Both rollers need to have equal loads and pressing distances between them to ensure a homogeneous pelleting process. A change in roller-die distance may cause rollers to slow down or even stop. The specially designed sensor mechanism monitors the speed of both rollers and displays it online through the PLS panel, and the system also automatically protects itself in case of an overspeed roller.



TECHNICAL DRAWING



MODEL		DIMENSIONS (mm)				MOTOR	CONDITIONER	SCREW FEEDING CONVEYOR	DIE		CAPACITY (t/h)
		A	B	C	D	POWER (kW)	POWER (kW)	POWER (kW)	DIAMETER (mm)	WIDTH (mm)	
P3	520/78 SM	3525	2320	1520	2690	160	7,5	2,2	520	78	1-2,5
P4	660/110 SM	4250	2950	1955	3150	200-250	15-18,5	3	660	110	3-3,5
P5	900/138 SM	4620	3275	2100	3325	315-355	18,5-22	4	900	138	4-5

SM :Single Motor

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