



Direct Drive, High-Capacity **Pellet Mill**

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The CPM Direct Drive Pellet Mill is the only one of its kind in the biomass industry today. It can process all types of biomass feedstocks including agricultural residues and woody biomass.



With pellet mills, briquetters, hammermills, coolers and more, plus aftermarket parts and service, our biomass portfolio is expansive and offers customers the flexible options they need to plan their optimal processing operation. As the largest pellet mill manufacturer in the world, CPM pellet mills are built to the highest standards and can meet the toughest and most rugged pelleting requirements.

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The new generation of Direct Drive pellet mills is especially designed for applications with very hard pelleting conditions in terms of raw material quality, set-up space, norms, etc. The production of wood pellets is one of these applications. In fact, Direct Drive is the first pellet mill designed for the biomass industry with direct drive system, without gearbox or V-belts. The new pellet mill performs a high efficiency thanks to its powerful torque motor, saving around 20% of energy, compared to the conventional drive systems.

Direct Drive in combination with the new CPM steam conditioning system also forms an optimal pelleting line for classical feed products, as well as for hulls and extraction meal in the oilseed industry.

The modular pelleting line configuration and the large range of die speed, 3 to 8 m/s without loss of torque, covers quite all pelleting applications. The Direct Drive assures good pellet quality with a high PDI (Pellet Durability Index).



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STANDARD FEATURES

- Short start-up time
- Less energy consumption
 - Energy saving up to 20%
- Less total cost of ownership
- Sturdy and available execution
- Less maintenance in time and cost
- Modular system with compact design
 - Smallest footprint in its class
- Special designed for your application
- Excellent pellet quality with high PDI (Pellet Durability Index)
- Variable die speed, continuously adjustable from 4 to 6.5 m/s without torque loss
 - Great flexibility for raw mass
 - Covers almost all pelleting applications
- Pellet press with rolls and die from one hand
- Direct drive system without gearbox or V-belts
 - No transmission loss
- Higher torque compared to classical drive systems
- Simple monitoring of the product quality by sampling at the press door
- Easy accessibility for driving and maintenance
- Slip and temperature control of roll assembly



OPTIONAL FOR FEED APPLICATION:

- Feeder, conditioner, hygieniser, DDC
- Hoist system
- Automatic roll gap adjustment

Due to our innovative pellet mill design, the machine saves 20% energy at significantly higher torque. Full torque is available from speed 0.

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Made for the Biomass Industry

The special requirements of the biomass industry are incorporated into the design of the direct drive, high-capacity pellet mill including engine power and die size configurations.



Customer Benefits

- Simplified maintenance due to reduced number of mechanical components
- Higher torque produces denser pellets
- High efficiency with lowest kilowatt per ton of energy used amongst all competitor biomass pellet mills
- More sustainable with less grease required
- Low vibration and low die speed preserves the longevity of machine parts

Model	Die ID	Die Width	Die Working Area	Torque	Max Power	Die Speed at 4,7 m/s *	Capacity
	in / mm		in ² / mm ²	Nm	HP / kW	RPM	TPH
660-108 DD	26 / 660	4,2 / 108	88 / 2240	18,000	340 / 250	135	2-3.5
900-138 DD	35,5 / 900	5,5 / 138	154 / 3900	29,000	415 / 304	100	4-6
1200-200 DD	47 / 1200	8 / 200	297 / 7540	60,000	640 / 470	75	8-12

** the die speed is steplessly adjustable from zero to 6.5 m/s*

Pellet Mills Dies

Our pellet mill dies portfolio boasts technological prowess, rapid turnaround times, strong performance and service excellence. With the integration of Dorssers, CPM is your one-stop-shop for dies of all brands.



From the food you eat to the fuels you require, CPM plays an important role in building a better world. Our experienced team and family of trusted brands are working together to make our planet a better place to live.

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