



## PELLET MILL *N-Mini*



**N-MINI** pellet mill machine is projected and manufactured in accordance with CE norm about construction's prescriptions and safety. With **N-MINI** you will save money and get **lower pellet production cost**, because we have developed a basic **low relation between electrical Kw consumed and pellet production Kg per hour (ENERGY SAVING)**. In fact, **N-MINI** has been projected and developed properly for pellet production and all technologies and mechanical solutions are chosen to get the best economic advantageous respect other producers and obtain the **best quality pellet** on market, completely without additives, from natural origin or not. Therefore, with **N-MINI** and others Nova pellet mill machineries, you can sell pellet both to private or industrial market and gain on **low maintenance and production cost**.



N-MINI pellet mill has the following general specifications, valid for each model:

PELLET MILL	Unit of measurement	N-MINI
Dies cutter internal diameter	mm	280
Rollers diameter	mm	122
Pellet diameter	mm	6 - 8 (different on request)
Dimensions	mm	1100x900x2085
Weight	Kg	1500

**Technical specification:**





PELLET MILL N-MINI	A	B	C
<b>ELECTRIC POWER</b>			
Active power installed	11 Kw	15 Kw	22 Kw
Electric source	V 400 +/- 10%      Hz 50/60		
<b>PELLET PRODUCTION PER HOUR</b>			
<u>Kg/h</u> soft materials (like spruce, pine, poplar and olive tree)	100/150	140/200	180/240
<u>Kg/h</u> hard materials (like beech, oak and chestnut tree)	80/120	120/170	150/210

General information for raw material to be used to load pellet mill machinery:

- ◆ Consistency : saw dust or material size among 0.5 mm and 1.5 mm
- ◆ Moisture rate : between 8% and 14%
- ◆ Characteristics : every kind of wood tree or other material, without metal residuals



**N-MINI pellet mill is complete by:**

<p><b>Electrical cabinet with PLC and remote modem connection (optional)</b></p>	 A photograph of a grey electrical control panel. It features a small LCD screen at the top, a numeric keypad below it, and several function buttons. The brand name "NOVA" is visible at the bottom right of the panel.
<p><b>Dozing screw lead by frequency driver</b></p>	 A photograph showing a close-up of a screw conveyor mechanism. It consists of a horizontal shaft with a helical screw inside, mounted on a metal frame. A motor is visible at the end of the shaft.
<p><b>Rollers' setting and easy and fast cleaning by front doors</b></p>	 A photograph of the front of a pellet mill. It has a red and grey color scheme. The front panel is open, revealing the internal rollers and adjustment mechanisms. A warning sign is visible on the lower right of the front panel.
<p><b>Water/air spray to humidify the raw material</b></p>	 Two photographs showing the humidification system. The left photo shows a blue and red hose connected to a spray nozzle. The right photo shows a close-up of the control valves and gauges for the water and air supply.
<p><b>Mechanical sensor level</b></p>	 A photograph of a mechanical sensor mounted on a metal surface. It consists of a cylindrical probe with a circular sensor head at the end.



**End of cycle oil pump  
and  
automatic grease lubrication**



**Suction plugs for dust and air**



Technical innovations of N-MINI pellet mill:

- Roller's setting and adjustment outside the main door of the machine, that means no running cycle stops for setting
- Pellet production without additives, from natural origin or not
- High efficiency engines IE2 norms (ENERGY SAVING)
- Double screw to load saw dust into the die
- Dozing screw regulated by a frequency driver
- Rollers attached in two sides to the structure of the machinery
- Vegetable oil for start and stop production cycle (to avoid saw dust hardness inside the dies during machinery stop)
- Air and water mixer to humidify the raw material
- Compact size machinery
- Fast tools change by the direct front machine 's opening that permit low time and cost for maintenance and cleaning
- Automatic grease lubrication for rollers and main shaft



General specifications of N-MINI pellet mill:

- Pellet mill with mechanical and electrical functioning system
- System control and management by PCL
- Electrical cabinet with remote connection modem (optional)
- Manual rollers regulation (tools that permit the rotation of the dies)
- Saw dust loading system is composed by a mini-silos and a screw (regulated by an frequency driver connected to the dies ampere)
- Die holes' length from 14 to 50 mm, in accordance to the raw materials we are going to pelletize (saw dust or other vegetal or agricultural residuals)
- Mechanical sensor level on the saw dust storage
- Manual grease lubrication for engine
- Front side pellet unloading
- Electrical safety locks
- Engine area hardware protected
- Connectable to dust and steam suction line
- Instruction manual and CE conformity certificate

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Nova Pellet staff is able to supply immediate and complete assistance and support on its pellet mills installed all over the world. Besides, Nova Pellet projects, manufactures and supplies all spare parts of all the models of Pellet Mill Machinery:



**DIE**



**ROLLERS**



## REFINER MILL

### N-HAMM



Nova Pellet projected and developed a special refiner mill **N-HAMM** to install upon **N-MINI** pellet machine.

**N-HAMM** permits to refine thin wood chip, wood shavings and saw dust directly upon the pellet machine, therefore you can gain of a direct preparation of your raw material for pelletizing, allowing the easy installation of the all system under a cereals, saw dust or wood shaving silo.

<b>REFINER MILL N-HAMM</b>	<b>A</b>	<b>B</b>
<b>ELECTRIC POWER</b>		
Active power installed	5,5 kW	7,5 kW
<b>SAW DUST PRODUCTION PER HOUR</b>		
<u>Kg/h</u> Wood shaving or saw dust	100/150	120/200
<u>Kg/h</u> Thin wood chip	80/130	100/180
<u>Kg/h</u> Agricultural residual (Cereals, manure etc.)	100/200	120/220



**N-Compact**

Nova Pellet project and developed a packaging modular structure to install besides **N-MINI**. **N-COMPACT** permit to package directly pellet production into 15 kg bags: a tilted conveyor belt load a cistern to storage pellet, here you can package the pellet into 15 kg bags, opening the pneumatic valve. Then you can weld the bags and sell it.

**N-COMPACT** is composed by:

- Vibrating screen N-VB800 (Optional)
- Tilted conveyor belt with suction plugs;
- Pellet storage hopper Mc 0.75 to 1.5;
- Pneumatic valve;
- Weighing bag machine kg 15;
- Welding machine;
- Support for weighting and welding machine;
- Electrical board.

In the following pictures you can see, first, **N-VB800** vibrating screen, then the packaging system **N-COMPACT**:





In the following picture you can see the **N-MINI** pellet mill installed with **N-COMPACT** packaging system (**N-MINI COMPACT**):



**NOVA PELLET SRL**  
**SALES OFFICE**

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**Nova Pellet S.r.l. – Machinery and plant for pellet production**

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