



PELLET MILL

N-ECO



N-ECO pellet mill machine is projected and manufactured in accordance with CE norm about construction's prescriptions and safety. With **N-ECO** 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-ECO** 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-ECO** 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-ECO pellet mill has the following general specifications:

PELLET MILL	Unit of measurement	N-ECO
Dies cutter internal diameter	mm	380
Rollers diameter	mm	182
Pellet diameter	mm	6 or 8 (different on request)
Dimensions	mm	1500x1200x2225
Weight	Kg	2100

Technical specification:






PELLET MILL N-ECO	A	B	C
ELECTRIC POWER			
Active power installed	30 Kw	37 Kw	45 Kw
Electric source	V 400 +/- 10% Hz 50/60		
PELLET PRODUCTION PER HOUR			
<u>Kg/h</u> soft materials (like spruce, pine, poplar and olive tree)	250/400	320/500	400/550
<u>Kg/h</u> hard materials (like beech, oak and chestnut tree)	230/350	280/450	350/500

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-ECO pellet mill is complete by:

<p>Electrical cabinet with Siemens PLC S7200 and remote modem connection</p>	
<p>Dozing screw lead by frequency driver</p>	
<p>Rollers' setting and easy and fast cleaning by front doors</p>	
<p>Water/air spray to humidify the raw material</p>	
<p>Mechanical sensor level</p>	



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



Suction plugs for dust and air



Technical innovations of N-ECO 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 or glues, from natural origin or not
- High efficiency engines IE2 norms (ENERGY SAVING)
- Dozing screw regulated by a frequency driver
- Rollers attached in two sides to the structure of the machinery
- Die with easy change system and low wear time for the tools of the pellet mill
- 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



General specifications of N-ECO pellet mill:

- Pellet mill with mechanical and electrical functioning system
- System control and management by PCL Siemens and touch screen
- Electrical cabinet with remote connection modem
- 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 inverter connected to the dies charge)
- Dies' 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 level sensor on the saw dust hopper
- Manual grease lubrication for engine
- Automatic grease lubrication for rollers and main shaft
- Front side pellet unloading
- Electrical safety locks
- Engine area hardware protected
- Connectable to a dust and steam suction line
- Instruction manual and CE conformity certificate

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



N-PACK

Nova Pellet project and developed a packaging modular structure to install besides **N-ECO** models. **N-PACK** permit to package directly pellet production into 15 kg bags: a vibrating screen cleans the pellet, then 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-PACK is composed by:

- Vibrating screen model N-VB1100;
- Tilted conveyor belt with suction plugs;
- Pellet storage hopper 2 / 3 Mc;
- Big bag support (optional)
- Pneumatic valve for double weight;
- Weighing bag machine for kg 10 – 30 bags double weight;
- Welding machine;
- Support for weighing and welding machine;
- Electrical board.

In the following picture you can see, first, N-Pack plus Big Bag support packaging system





and, second, N-ECO pellet mill installed with N-PACK packaging system:



NOVA PELLET SRL
SALES OFFICE