



PELLET MILL *N-Plus*



N-PLUS pellet mill machine is projected and manufactured in accordance with CE norm about construction's prescriptions and safety. Besides, Nova Pellet S.r.l. has obtained in 2007 the Italian patent for the innovative system of die cutter s' loading and compression. With **N-PLUS** 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-PLUS** 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-PLUS** 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-PLUS pellet mill has the following general specifications, valid for each model:

PELLET MILL	Unit of measurement	N-PLUS
Dies cutter internal diameter	mm	580
Rollers diameter	mm	245
Pellet diameter	mm	6 - 8 (different on request)
Dimensions	mm	2400x2500x2400
Weight	Kg	7500

Technical specification:






PELLET MILL N-PLUS	A	B	C
ELECTRIC POWER			
Active power installed	110 Kw	132 Kw	160 Kw
Electric source	V 400 +/- 10%		Hz 50/60
PELLET PRODUCTION PER HOUR			
<u>Kg/h</u> soft materials (like spruce, pine and poplar tree)	1000/1500	1250/2000	1600/2500
<u>Kg/h</u> hard materials (like beech, oak and olive tree)	900/1200	1100/1700	1500/2000

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-PLUS pellet mill is complete by:

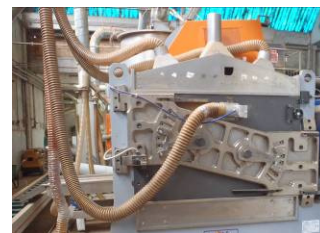
<p>Electrical cabinet with Siemens PLC S7200 and remote modem connection</p>	 A photograph of a grey electrical control cabinet. It features a Siemens PLC S7200 unit with a color touchscreen display showing a graphical interface. To the right of the screen is a prominent red emergency stop button and a yellow stop button. The cabinet is mounted on a metal frame.
<p>Dozing screw lead by frequency driver (optional frequency driver on main engine)</p>	 A photograph of a tall, white industrial cabinet. The cabinet has a door with a handle and a small control panel. The words "N-PLUS" are written in blue on the side of the cabinet. It is situated in an industrial setting.
<p>Rollers' setting and easy and fast cleaning by front doors</p>	 A close-up photograph of a mechanical component, likely a roller setting mechanism. It shows a complex arrangement of metal plates, bolts, and a flexible orange hose. The component is part of a larger machine.
<p>Water/air spray to humidify the raw material</p>	 Two photographs showing a water/air spray system. The left photo shows a large, circular concrete base with several nozzles and hoses. The right photo shows a close-up of the control system, including gauges, valves, and blue and red hoses.
<p>Mechanical sensor level</p>	 A photograph of a large, cylindrical metal tank. A mechanical sensor is mounted on the side of the tank, connected to a cable. The tank is situated outdoors.



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



Suction plugs for dust and air



Technical innovations of N-PLUS pellet mill (respect to pellet mill for feed business sector):

- Patent “Telaio per macchine per la produzione di pellet” (“Structure of pellet mill machinery”)
- Patent “Sistema di alimentazione per macchine per la produzione di pellet” (“Pellet mill machinery loading system”)
- 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)
- Frequency driver on main engine (Optional)
- One central screw to load saw dust into the dies
- Rollers attached in two sides to the structure of the machinery
- Ring die with easy change system and low wear time for the tools of the pellet mill
- Backside pellet unloading
- 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 for big production
- Fast tools change by the direct front machine ‘s opening that permit low time and cost for maintenance and cleaning



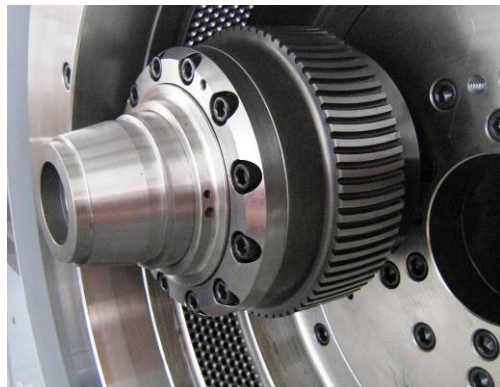
General specifications of N-PLUS pellet mill:

- Pellet mill with mechanical and electrical functioning system
- System control and management by PCL 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 stainless steel 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
- Automatic grease lubrication for rollers and drill
- Manual grease lubrication for engine
- Electrical safety locks
- Connectable for 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

NOVA PELLET SRL
SALES OFFICE