



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 has obtained the **PATENT** for the innovative system of loading of the die and compression area. 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**.

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Nova Pellet

Arco International S.r.l. – Machinery and plant for pellet production

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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	251
Pellet diameter	mm	6 - 8 (different on request)
Dimensions	mm	2500x2700x2500
Weight	Kg	10.000

Technical specification:






PELLET MILL N-PLUS	A	B	C
ELECTRIC POWER			
Active power installed	110 kW	132 kW	160 kW
Electrical source	V 400 +/- 10%		Hz 50/60
PELLET PRODUCTION PER HOUR			
<u>Kg/h</u> soft materials (like spruce, pine and poplar)	1000/1500	1300/1800	1600/2250
<u>Kg/h</u> hard materials (like beech, oak and chestnut tree)	900/1200	1100/1600	1400/2000

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 10% 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 S7 1200 and remote modem connection</p>	
<p>Dozing screw lead by frequency driver (optional frequency driver on main engine)</p>	
<p>Rollers' setting and easy and fast cleaning by front doors ROLLERS WITH DOUBLE HOLDER</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



Die Temperature control with display



**High resistance rubber belt for power
transmission**



**Adjustable hook with chain for Die and Rollers
easy removing system and
low maintenance time**





Technical innovations of N-PLUS pellet mill (compared to pellet mill for animal feed production):

- **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** or glues, from natural origin or not
- High efficiency engines **IE2** norms (ENERGY SAVING)
- Frequency driver on main engine (Optional)
- **Dozing screw** to load saw dust into the die **regulated by a frequency driver**
- **Rollers attached in two sides** to the structure of the machinery for low wearing time
- **Ring die** with easy change system and **low wear time for the tools** of the pellet mill (die and rollers)
- 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** and front doors opening by the direct front machine doors that permits short time and low cost for maintenance and cleaning
- Belt driven transmission with high resistance rubber belt
- **Compact size** machinery for big production
- One central screw to load saw dust into the dies
- **Automatic grease lubrication** for rollers and main shaft
- **MADE IN ITALY**

General specifications of N-PLUS pellet mill:

- Pellet mill with **mechanical** and electrical functioning system
- System control and management by **PLC Siemens** with touch screen
- Electrical cabinet with remote connection **modem with ethernet** cable
- **Mechanical 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 a frequency driver connected to the die ampere consumption
- Back side pellet unloading
- **Dies’ holes’ length from 12 to 70 mm**, in accordance to the raw materials you need to pelletize (saw dust or other vegetal or agricultural residuals)
- **Mechanical sensor level** on the saw dust mini-silo
- Manual grease lubrication for engine
- Electrical safety locks for main doors
- Engine power transmission area 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

**NOVA PELLET
SALES OFFICE**