

NAWROCKI PELLETING TECHNOLOGY LTD

FEED & BIOMASS
mini
PELLETER



**ADVANCED IN SIMPLICITY,
RELIABLE IN ACTION.**



miniPELLETER ADVANCED IN SIMPLICITY, RELIABLE IN ACTION.

miniPelleters are half-industrial pellet mills for manufacturers of pellets from biomass, animal feeds and other feedstocks.

miniPelleters are manufactured from the highest quality parts produced in the European Union.

mP 18 can be easily integrated with any existing pelleting line.

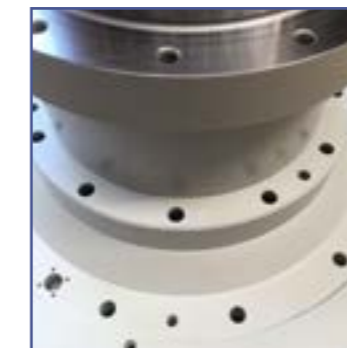
The round inlet of the pelleting chamber can be combined with every auger feeder or conditioner. Should a square inlet be required, we can adjust the shape and size of it to client's requirements. The design and the height of dump part of the pellet mill, makes it possible to connect to most of conveyors for receiving pellets.

No more breakdowns

We have designed miniPelleters for your satisfaction and problem-free operation. They are equipped with a professional, industrial drive, identical with the one used in large pellet mills.

Our miniPelleters provide operation for 10-18 hours daily, if run in the proper way. It means 3,000 hours of profitable production per year.

We understand that every client's target is to produce and sell and not to repair and fight for your guarantee rights with a seller.



What exactly can be pelletized in our miniPelleter

A unique design of miniPelleter allows you to pelletize practically all types of raw materials, maintain a high quality of pellets and a relatively high capacity. This is a very special feature that any client will appreciate during the operation.

Obviously, the most popular type of raw material in pelleting industry, is wood based biomass, or feed. These two types of feedstock can be pelletized without any problems.

With our miniPELLETER, other raw materials also won't cause any problems. An operator only needs to follow our guidelines and individual processing procedures.

A list of raw materials that are possible for pelleting is very long. For each of them, we select a die with optimal parameters, that provides a satisfactory output capacity, as well as quality of pellets.

Note: We always recommend our clients pelleting tests.

Basic division of the raw materials:

Feed

- Poultry
- Cattle
- Pigs
- Horses
- Rabbits
- Fish
- Other

Agro biomass

- Straw
- Hay
- o Husk
- Bran
- Peat
- Mineral raw materials
- Textiles
- Plastics

Forest biomass

- Hardwood
- Softwood

What are the requirements for biomass?

Biomass has to be shredded and achieve a particle size 1-5mm. The recommended moisture content is 12 to 15% and it should not exceed 18%.

A drive and a gear.

Capacity and reliability of miniPelleters is not only the effect of specified construction. The applied components also deserve credit.

Our customers receive a drive and a gear only from leading European manufacturers (Nord or Bonfiglioli). They guarantee many years of stable operation.

The motors with 45 and 18.5 kW, along with an adjusted gear, make an ideal combination, allowing efficient pelleting of the most difficult raw materials.

Consumables and Spare Parts.

We know how important it is to have a fast access to supplies. Rollers, scrapers and other wear elements are available in our warehouse on the same day.

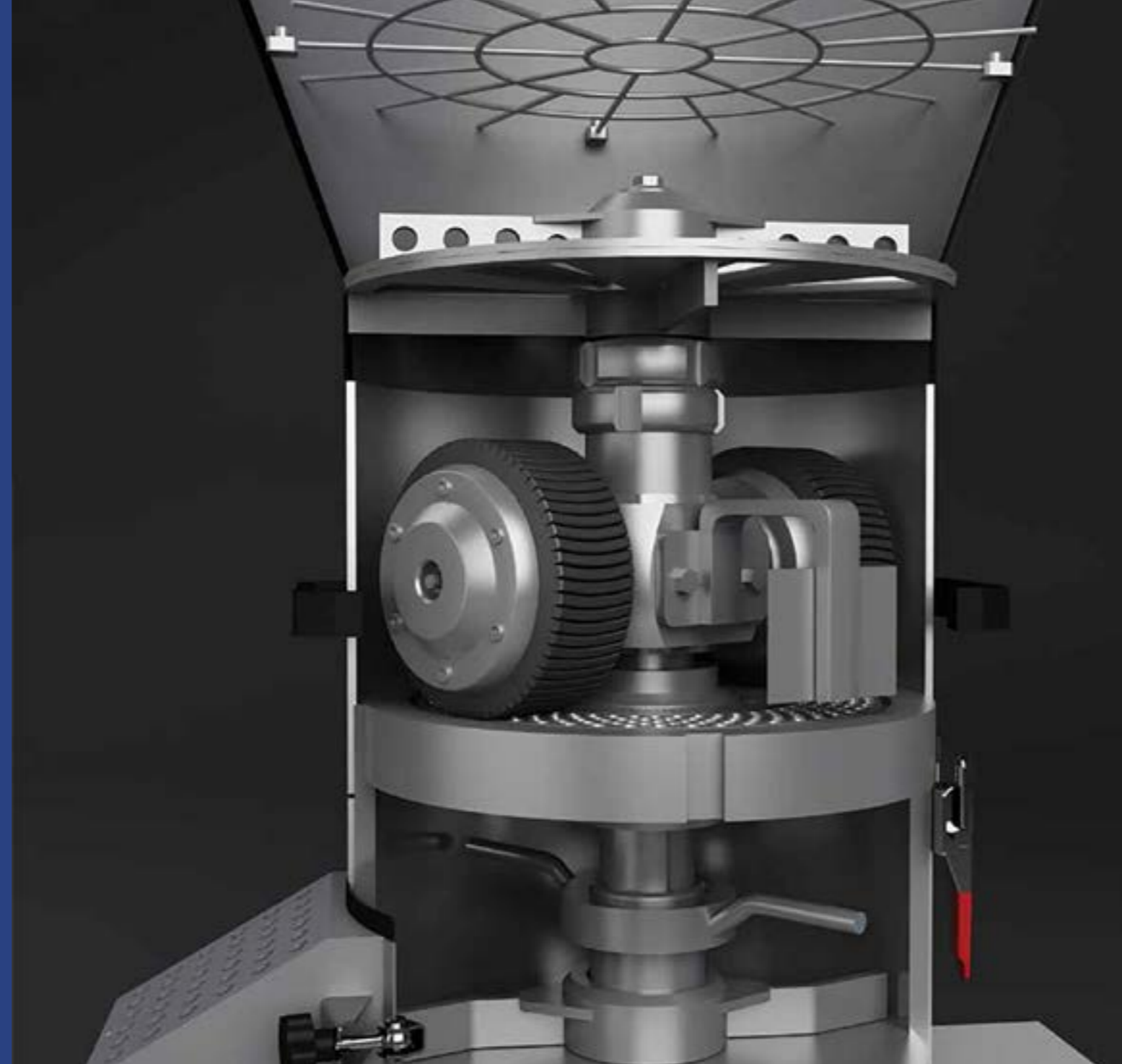
Our Clients appreciate the fact that 100% of mechanical elements for miniPelleters are manufactured in our plant in Znin, Poland.

We do not depend on any sub-suppliers. We are independent, so are our clients.

All matrix dies, we can manufacture in average within 14 - 21 days.

ESTIMATED OUTPUT CAPACITIES

miniPELLETER18		miniPELLETER45	
SOFTWOOD	200-270KG/H	SOFTWOOD	350-450KG/H
HARDWOOD	150-200KG/H	HARDWOOD	300-400KG/H
STRAW, HAY	180-200KG/H	STRAW, HAY	350-400KG/H
DIGESTATE	250 - 300KG/H	DIGESTATE	400-500KG/H
SRF/RDF	200-250KG/H	SRF/RDF	350-450KG/H
POULTRY FEED	400-600KG/H	POULTRY FEED	800-1200KG/H
PIG FEED	250-350KHG/H	PIG FEED	500-700KG/H



Technical details QUALITY OF THE DESIGN AND MANUFACTURING PROCESS

The best technology at affordable price!

The miniPelleter is not a result of compromise between its quality.

Why is our miniPELLETER such a good choice?

In the first place, because of our team of specialists who manufacture our miniPelleters: design engineers, welders, turners, millers, fitters, assemblers, quality inspectors.

miniPelleter 18 is made of the highest quality components, produced in the European Union. It is assembled on our production line in Poland. European in 100%, which determines the innovativeness and is an effect of our 40 years' experience in pelleting industry.

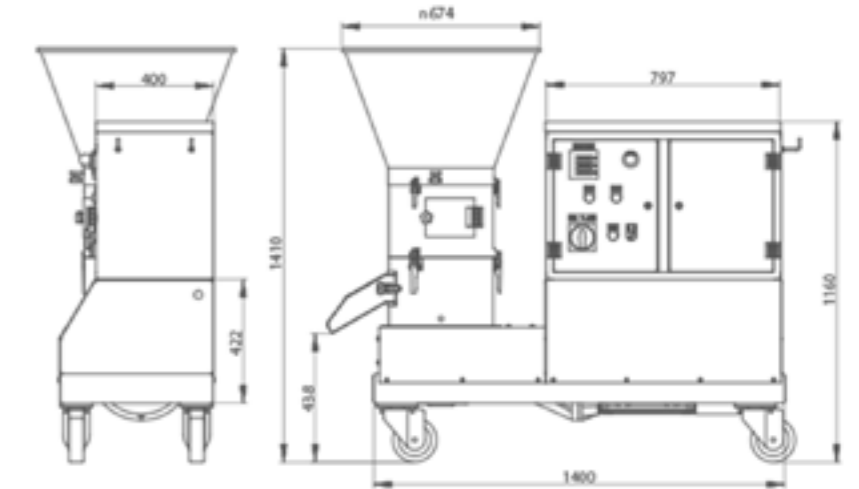
Technical parameters

We expect 3,000 working hours a year; 10h x 25 days x 12 months on average.

power: 18,5 kW
mass: 585 kg

dimensions:
length: 1,590 mm, width 520 mm, height: 1,360 mm

The die:
outer diameter 380 mm,



max. thickness: ~180 mm,
max. hole diameter: 15-20 mm
quantity of rollers: 2

Standard equipment:

- Conical raw material feeder,
- Magnetic separator,
- Raw material speed dosing control,
- Pelleting press with the control panel,
- Power supply module Star-Delta,
- 18,5kW engine with a gear,
- 1 flat die,
- 2 complete rollers,
- Tool kit,
- Power supply cable,
- Documentation.

Additional equipment:

miniPelleter can be completed with additional options or appliances of miniX series, or you can build your own complete pelleting line for biomass or feeds.

- SoftStart-type power supply,
- Conditioner,
- Counterflow cooler,
- Aspiration set of the counterflow cooler,
- Worm feeder with a mini tank 1,0 m3,
- Vibrating screen,

miniLINES

BASIC PELLETING LINES

mP 18 can be easily integrated with any existing pelleting line.

For everyone who considers entering the pelleting business on the smaller scale and to get the right equipment at affordable price, we recommend our **STARTER SET**: Milling & Pelleting Line with Dust Filter.

This is the best start for beginners, who are interested in a small scale pellet production plant, that does not require availability of large footprint and allow to start with output capacity as low as 200 kg/h.

This Milling & Pelleting Line can be easily extended with Cooling Module, Cleaning Module and Packaging Module.

This line consists of the following components:

- Option: Screw conveyors from the main feedstock silo,
- Hammer mill with transporting tubes,
- Transport cyclone with air lock and reducer,
- Dust filter with own fan,
- Feedstock container 1qm with dozing screw
- Pellet mill (miniPelleter 18.G2 or 45.G1),
- Belt conveyor for hot pellets,
- Big-bag frame,

- Training.

Optional components & services:

- Mechanical assembly,
- Electric assembly,
- Supervision on assembly,
- Technological project,
- Additional component section (big-bag + dozing screw),
- Conditioner (stainless steel),
- Set of sensors,
- Full automatic control system (PLC + LCD),
- Switch box,
- Full wiring,



Containerized Lines

MOBILITY & COMPLEXITY IN ONE

The miniPelletingLine consists of all subsystems as in an industrial version, however it's been downsized for lower capacities and smaller space requirements.

In the heart of the miniPelletingLine is miniPelleter 18.G2, or miniPelleter 45.G1, and for larger output; GRB1 420 or GRB1 550 pellet press.

This fully functional pelleting line is equipped with the following components which are included in the basic price:

1. Option: Screw conveyors from the main feedstock silo,
2. Hammer mill with transporting tubes,
3. Transport cyclone with air lock and reducer,
4. Dust filter with own fan,
5. Feedstock container 1 qm, 2qm, 20qm or 27qm,
6. Pellet mill (miniPelleter 18.G2 or 45.G1, GRB1 420 or 550),
7. Counterflow cooler with tubes, cyclone and fan,
8. Vibrating sifter,
9. Cooled pellets container 3qm, 7qm,
10. Half-automatic packaging system 15-25 kg/bag,
11. Big-bag loading section with automatic stop,
12. Set of sensors,

13. Full automatic control system (PLC + LCD),
14. Z-shaped bucket elevators and belt conveyors,
15. Dozing screws and screw conveyors,
16. Switch box,
17. Full wiring,
18. Comprehensive training.





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