



Pellets can be produced from different types of biomass materials – corn cobs, alfalfa (lucerne), grain, grass and etc. Also pellets can be produced using waste material like horse/cow manure, chicken manure and similar. Various wood waste like wood chips, sawdust, shavings can also be converted into pellets. In order to produce highest quality pellets, it is very important to have dry (up to 11-14% moisture content) and clean raw materials.

Depending on raw material, pellets can be used as:

- Biomass fuel for houses, farms, schools, factories and other;
- Bedding for horses, cows, chicken and domestic animals;
- Animal feed;
- Fertilizer



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BIOMASS PELLET PRODUCTION LINE

**Pellet production capacity:
 1000 kg/h to 5000 kg/h**



Anno 1949

About pellet lines:

“Radviliskis machine factory” is producer of complete pelleting lines for different raw materials – we offer turn-key solutions for customers worldwide. Pellets are produced from dry raw materials, that are milled to 1-3mm particle size and then converted into pellets, without using any additional binder, except water. Additional materials, binders can be added into the process additionally.

1. Bunker – conveyor

15 m³ volume bunker conveyor with chain conveyor to bring material for further processing

2. Open top screw conveyor

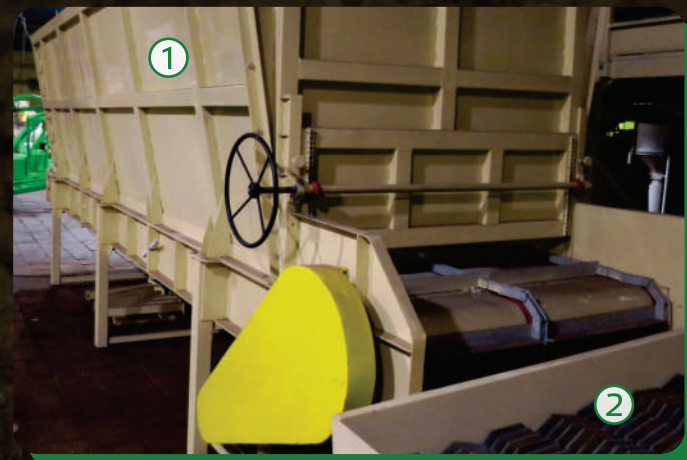
Accepts material from the bunker-conveyor and brings it to the stone catcher and hammer mill

3. Hammer mill with stone catcher

Mills the material to 1-3mm particle size, that is suitable for pelleting. Stone catcher is installed before hammer mill

4. Cyclones with rotary valves

Settles down milled material to pelleting system. Dust and air go to air filters.



5. Pellet press OGM-1,5 set (single or double set is available)

Produces pellets using milled material. Includes: pellet press with ring die and rollers, screw conveyor, bunker, mixer, elevator, cooler, screener, cyclone with ventilator, air filter, water supply system, ladder, automatic roller lubrication.

Technical parameters:

Pellet line production capacity – 1000 kg/h – 5000 kg/h, depending on raw material and set configuration.

- Installed capacity – from 100 kw to 300 kw of total motor power.
- Staff required to work with pellet line – 1-2 persons per shift.
- Required minimum dimensions of standard pellet line: length 20 m, width 10 m, height 6 m.

6. Pellet packing into Big – bags

Includes belt conveyor or elevator and 3m³ bunker with weighting scales



7. Control panels

With automatic or manual modes available

Work process:

Dry material is supplied to bunker – conveyor. Chain conveyor on bottom of the bunker has cross carriers, that bring material into open top screw conveyor and stone catcher. Hammer mill picks up light material from stone catcher and mills it to 1-3 mm particle size, depending on the screen size. Cyclones with rotary valves accept material and dust after the hammer mill and settle down material into OGM-1,5 pelleting system - dust goes into air filtration. Pelleting system produces selected diameter (most popular 6mm or 8mm) and bulk density (500 – 650 kg/m³) pellets with the help of dosing system, mixing screw, water injection, pellet screening, cooling and packing. Dust and crumbles go back for repetitive pelleting, and good quality pellets go to packing system.