



English



Since 1949

**RADVILISKIS MACHINE FACTORY**



**Straw shredding  
and pellet production  
equipment  
SSGL-1**



Straw



Shredded straw



Grinded straw



Pellets

Pellets are used as:

- Combined heat and power (CHP) for the heat supply districts;
- Automated boilers;
- Heating of private houses;
- As bedding in the stables, farms;
- Food for farm animals;
- As an amplifier of the fertilizer;
- As an absorbent for the domestic animals;
- As an absorbent for industrial filters;
- To collect and remove oil from the surface;
- For the production of heat-insulating building materials;
- For the production of porous bricks.

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**"Radviliskis machine factory"** is the manufacturer of straw shredding and pellet production equipment SSGL-1. Set's purpose – to shred, grind various type of straw and produce pellets. Pellets are made from natural straw without any additional materials and can be used as a bio-fuel for heating systems, for animal bedding and etc. Equipment can be applied to make pellets using raw material such as wood chips/sawdust, peat, sunflower husk, paper, plastic, manure and other.

**1. Transporter for straw bales (round, square) to supply Shredder.**

Transports pressed bales or other forms of straw, grass bales to the Shredder.

**2. Shredder/Chopper.**

Shreds/chops straw bales and supply shredded material into hammer mill.

**3. Hammer mill with stone catcher**

Grinds various types of chopped straw up to 1-3 mm fraction (various types of sieves can be used to get different fraction). Stone catcher is mounted before hammer mill intake and prevents from large-sized waste entry into the hammer mill.

**4. Cyclone with rotary valve**

Cyclone with rotary valve puts-down grinded raw material and dust to the screw transporter. The cyclone body has a door for control of material moving process.

**5. Air filtration equipment**

Used for secondary dust settling and final air cleaning. Components: the cyclone with rotary valve and air filter EKO (filter sleeves and dust collection bags).

**6. Electricity control boxes (2 units)**

Controls all the processes of the equipment set. Manual or automatic modes are available.

**Technical parameters:**

- Equipment capacity - up to 1300 kg of pellets per hour, with straw humidity up to 14%;
- The production process has no waste.
- Set is equipped with the highest quality ring dies and rollers.
- Installed capacity for the equipment set -199 to 219kW. Actual electricity consumption - 140-170kWh.
- Personnel required to work with the equipment - 2 persons per shift;
- Equipment dimensions if positioned in one line: length 24 m, height 6 m, width 6 m;
- If there's a need of higher production capacity, multiple equipment sets can be combined into a single production line.

**7. Pellet press OGM-1, 5A (equipment set)**

Produces pellets using grinded raw material. Equipment set includes: pellet press with ring die and rollers, screw transporter, bunker, mixer, elevator, cooler, sorter, cyclone, filter EKO, water supply system, ladders, automatic roller lubrication system, set of metal pipes and corrugated hoses.

**8. Packing into Big Bags equipment**

Includes: belt transporter and bunker. The pellets are supplied to the bunker (capacity of 3 m<sup>3</sup>). Bunker has a manual valve and electronic platform scales (the results are shown on electronic display).

**Production process:**

Straw bales, with the help of transporter (1), come to the shredder (2). There they are shredded to 10-90mm length pieces. Through the stone catcher, shredded material is delivered to the hammer mill (3) by a screw transporter. It grinds the material to 1-3 mm fraction and blows it into the cyclone-settler (4). Dust goes out from the cyclones to the air filtration equipment (5). From the cyclone-settler, grinded straw enter screw transporter, then bunker, from which, through dosing screw and mixer - to the pellet press OGM-1,5A (7). Pellets are then cooled and fed into the packing equipment (8) and packed in big bags (600-1000 kg).

