



Field trial report of corn sieve made by the Osko-Plast company

Place of the trial: Bujały - Mikosze, gm. Jabłonna

The test was carried out by Mr. Janusz Kozuchowski (owner of the Bizon Z058 combine harvester) and Mr. Mirosław Ostrzyżek (co-owner of the Osko-Plast company).

Date of the trial: October 11, 2013.

Combine harvester:

- Bizon Z058;
- Upper sieve: sieve made by Osko-Plast company with lamellas' notch 22 mm., the pitch between axes of the wires 40 mm.;
- Setting the upper and extension sieves: opening to "one notch"; slot about 4 mm.;
- Bottom sieve: hole screen with a hole diameter of 16 mm.;
- Starter: Olimac Drago for maize, four-row;
- Rotor drum speed: 600.

Measurement conditions:

- Air humidity: 96%
- Grain moisture: 32%
- Corn variety: Danubio
- Mowing height: 25 cm.
- Plant density: in a row every 16 cm.
- Plant height: approx. 2.8 m.
- Mowing efficiency: 14t / h

The results of the trial using **the Osko-Plast corn sieve** in comparison with the results obtained with the previously installed in the above-mentioned harvester pocket sieve.

- 1) Mowing speed increased by approx. 35%. The test is carried out on the 3 (highest) gear, speed 7-8 km/h.
- 2) Significantly increase the purity of corn grain. Photo 1- 3.
- 3) Increasing the purity of the sieve after work. Using the pocket sieve, Mr. Kozuchowski was forced to clean it about every hour, for about 10-15 minutes. Corn sieve made by the Osko-Plast, after mowing 15 ha of corn (about 15 hours of work) did not require cleaning. Photo 4.
- 4) Significant reduction in grain loss despite full opening of the worm.

On the day after the test (October 12), Mr. Kozuchowski was mowing corn at 100% air humidity and 45% grain moisture. Mowing required reducing the gear to 2 (speed 5-6 km/h). Grains remained clean, and the sieves still did not require cleaning.

Using corn sieves made by the Osko-Plast company, instead of pocket sieves means for the farm:

- saving up to 50% of the time (mowing speed + eliminating the time needed to clean the sieves);
- fuel economy;
- increased comfort of mowing (no unnecessary cleaning of sieves);
- increasing the purity of the grain (which additionally increased the drying efficiency and reduced the cost of drying).

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