



**OSKO-PLAST s.c.**  
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Stara Dąbia, October 29, 2014

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

Place of the trial: Krasnystaw experimental field

The test was carried out by the owner of the Farm, Mr Piotr Franaszczak (owner of the Lexion 440 combine harvester) and Mr. Mirosław Ostrzyżek (co-owner of the Osko-Plast company).

Date of the trial: October 29, 2014.

### Combine harvester:

- CLAAS Lexion 440;
- Upper sieve: sieve made by Osko-Plast company with HR lamellas' notch 32mm., the pitch between axes of the wires 40mm.;
- Starter: New Holland, six-row for corn;
- Rotor drum speed: 500;
- Blower speed (turbine): 1300;
- Slot at the floor: 23mm..

## **STEP I**

### Measurement conditions:

- Grain moisture: 20.10% - 26.50% (depending on the variety)
- Corn varieties: MAS 25T; MAS 20F; MAS 37H; MAS 21M; MAS 32C; MAS 35K; MAS 15P; MAS 32F; MAS 29T; MAS 22R; PLENTY; MAS 17G; MAS 31R
- Mowing height: 25cm.
- Cast: 108 thousand ha
- Plant height: approx. 2.5m - 3.5m (depending on the variety).
- Yield: 9.46 - 14.22 t/ha with humidity of dried grain 14% (depending on the variety)
- Upper sieve: closed
- Bottom sieve: missing

Mowing speed oscillated between 6.5 - 7 km. / h. The grain loss sensor did not show any losses.

## STEP II

### Measurement conditions:

- Grain moisture: 22.7%
- Corn variety: MAS 31R
- Mowing height: 25cm.
- Cast: 108 thousand/ha
- Plant height: approx. 3m.
- Yield: 9.46 t/ha with humidity of dried grain 14%
- Upper sieve: a slot of about 10mm.
- Bottom sieve: missing

After the sieve was opened, the mowing speed was gradually increased, so that the grain loss sensors did not show any losses. The speed has been increased to 11.5 km / h. The sieves sowed the grain, but the cutting mechanism of the attachment could not keep up with the cutting - he began to uproot the plants. Grain remained clean.

Comments after the season of use of the Osko-Plast corn sieve with the HR Lamella, L = 32mm.:

- 1) Maximum grain moisture content was 36%. Mowing was still carried out with closed sieves. Speed (6.5-7 km / h) and grain purity has been preserved.
- 2) Grain was clean - no settling.
- 3) During the corn harvest, the sieves did not require cleaning.

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