

## INDENTED CYLINDER SEPARATORS (TRIEURS)

# ST-12

# ST-8

**NEW!**



### Application

Indented cylinder separators (trieurs) ST-8 and ST-12 are used to separate seeds, grain, pulses, oil-seeds, industrial crops on the bases of grain length. This machines are intended for the grain pile that was cleaned by air-screen grain cleaning machines.

The ST-8 and ST-12 are installed in technological lines of the seed and grain post harvest treatment and the grain-cleaning processing lines in the all climate zones.

### Basic component parts:

- 1) indent cylinder;
- 2) frame;
- 3) front hoppers;
- 4) back hoppers;
- 5) electric drive.

### Operation

The grain pile contained long and short impurities and the basic grain comes into the rotating indented cylinder of the topside module (oat cylinder) through the front hopper and gradually moves to the other end of the cylinder. During this movement the trieur's cover (with special cells, so-called indents) carries away the basic grain and short impurities which are laid into the cells (indents). Rising higher the basic grain and short impurities are transported out by screw through the back hopper into the lower module (cockle cylinder). Long impurities which are larger than the indents are left inside the cylinder and then transferred through the back hopper into the waist chute.

### Technical specifications

Name	Dimensions and specifications	Dimensions and specifications
Model	ST-8	ST-12
Type	stationary	stationary
Driving motor	electrical	electrical
Overall dimensions in on-position, Mm, (maximum):		
– length	3400	4000
– width	1100	1100
– height	2600	2600
Mass, Kg, (maximum):		
– including all operating devices	1400	1800
Total installed motorcapacity, kW, (maximum)	6,2	6,2
Number of the operating personnel, person.	1 mechanic of the line	1 mechanic of the line
Nominal output per hour of prime time on wheat with volume weight 760 gram/liter with humidity up to 14 %, including 3 % of trash separated by the trieur's operating devices, t/h	8,0	12,5
Specific consumption of electrical energy on wheat, kW·h/t, (maximum)	0,518	0,446
Internal deameter of the trieur cylinder, Mm	800	800
Rotation frequency of the cylinder		
– for separating of the long impurities, rot./min (maximum)	39	39
– for separating of the short impurities, rot./min (maximum)	36	36
Number of the trieurs segments, pcs.	4	4

The capacity and nominal output of the models ST-8 and ST-12 are comparable to the the analogous indented cylinder separators TK/TL 730 and 930 manufactured by German company Petkus and to the trieurs HSR 8010 and 12010 released by Danish company Cimbria.