

# INDENTED CYLINDER SEPARATOR

## HSR 1020–16020 R-L

### GENERAL

Brand	Cimbria
Designation	Indented cylinder separator
Model	HSR 1020 R-L - HSR 16020 R-L
Use	Industry



### Application

Indent cylinder are used for length grading of all granular materials such as wheat, oat, maize, rice, fine, lentils, stones from peas, sticks from sunflower or sugar beet, plastic particles etc., as well as for the extraction of unwanted short or long admixtures.

### Working mode

Through the inlet housing, the granular material to be graded flows into the interior of the rotating cylinder whose cover is provided with special deep drawn "tear-drop or spherical" shaped pockets for the most precise length separation.

The grains that embed themselves fully into the indents, will be lifted and after a certain distance (adjustable to suit) will fall out of the pockets under gravity into the trough (Trough-Product) and will be discharged by means of a conveying screw.

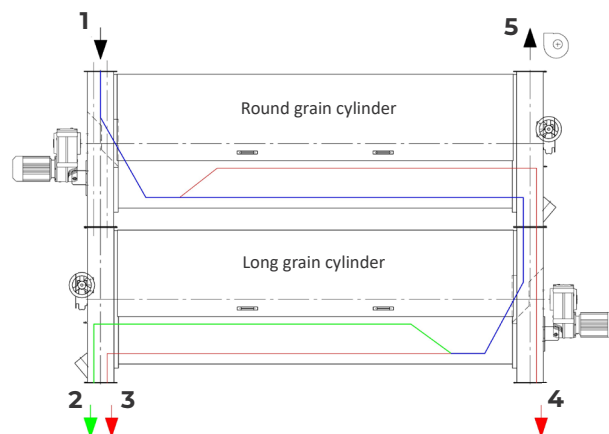
Those kernel, however which are longer than the indent diameter will immediately slide out and remain on the inside surface of the indent cover (Shell-Product). This shell product flows to the discharge point of the cylinder and will be discharged into the outlet housing.

Depending on the necessary separation requirement the kernels undergo a round or long grain separation.

### Optional equipment

On request the machine can be equipped with:

- Pocket air cleaning system
- Adjustable cylinder inclination
- Stirring device
- Wear resistant lining
- Adjustable speed
- Automatic trough adjustment



1. Inlet
2. Good product (e.g. wheat)
3. Long grain (e.g. barley, wild oats)
4. Broken kernels and weeds
5. Aspiration

### Technical data

Type HSR		1020	2020	3020	4020	5020	6020	8020	10020	12020	16020
Capacity	t/h										
Wheat		1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.0	12.0	16.0
Barley		0.8	1.6	2.4	3.2	4.0	4.8	6.4	8.0	9,6	12.8
Rice (paddy)		0.4	0.8	1.2	1.6	2.0	2.4	3.2	4.0	4.8	6.4
Motor (standard)	kW	2x0.37	2x0.55	2x1.1	2x1.1	2x1.1	2x1.1	2x3.0	2x3.0	2x3.0	2x4.0
Air requirement	m <sup>3</sup> /min	6	7	9	9	9	9	12	12	12	12
Cylinder dim.	mm										
Ø		400	400	600	600	600	600	900	900	900	900
Length		1 000	2 000	1 500	2 000	2 500	3 000	2 000	2 500	3 000	4 000
Dimensions	mm										
Length		2 107	3 145	2 905	3 405	3 905	4 405	3 765	4 265	4 765	5 775
Width		640	640	860	860	860	860	1 202	1 202	1 202	1 205
Height		1 240	1 240	1 740	1 740	1 740	1 740	2 480	2 480	2 480	2 480
Net weight	kg	540	740	1 020	1 170	1 240	1 500	1 980	2 240	2 490	2 630

Technical data can vary for certain of the above due to continued development or a different machine composition.