

# INDENTED CYLINDER SEPARATOR

HSR 1020 R-L - HSR 16020 R-L

## 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.

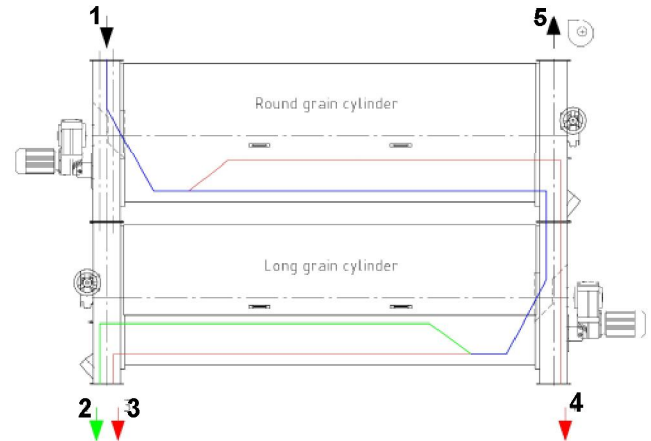
## Working mode

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.



- 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

## Optional equipment

On request the machine can be equipped with:

- Pocket air cleaning system
- Adjustable cylinder inclination
- Stirring device
- Wear resistant lining

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 (white)	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	1000	2000	1500	2000	2500	3000	2000	2500	3000	4000
Dimensions mm										
Length	2107	3145	2905	3405	3905	4405	3765	4265	4765	5775
Width	640	640	860	860	860	860	1202	1202	1202	1205
Height	1240	1240	1740	1740	1740	1740	2480	2480	2480	2480
Net weight kg	540	740	1020	1170	1240	1500	1980	2240	2490	2630

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