Spomax Engineering SA

DETACHERS

Detachers are reliable devices for supporting the grain milling process. They are used as disrupters of flakes coming from smooth rolls passages or to detach flour particles which may adhere to the bran. Detachers of the type RZE find application in disinfection of grain and flour.

Detachers can work independently or as a support to a roller mill. They can be installed at every milling passage. The best results, however, are obtained in passages (with smooth rolls) for milling of very fine and medium semolinas as well as coarse middlings. Good results are achieved when detachers are used for reduction of rye semolinas after corrugated rolls.

As independent milling devices detachers can be installed, for instance, before distributor of semolinas produced on the first and second breaking passages. They can also replace roller mills on reduction passages.

The intensity of milling support depends on the type of detacher. It is generally higher with pin detachers and lower with infestation destroyers.

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IMPACT DETACHERS

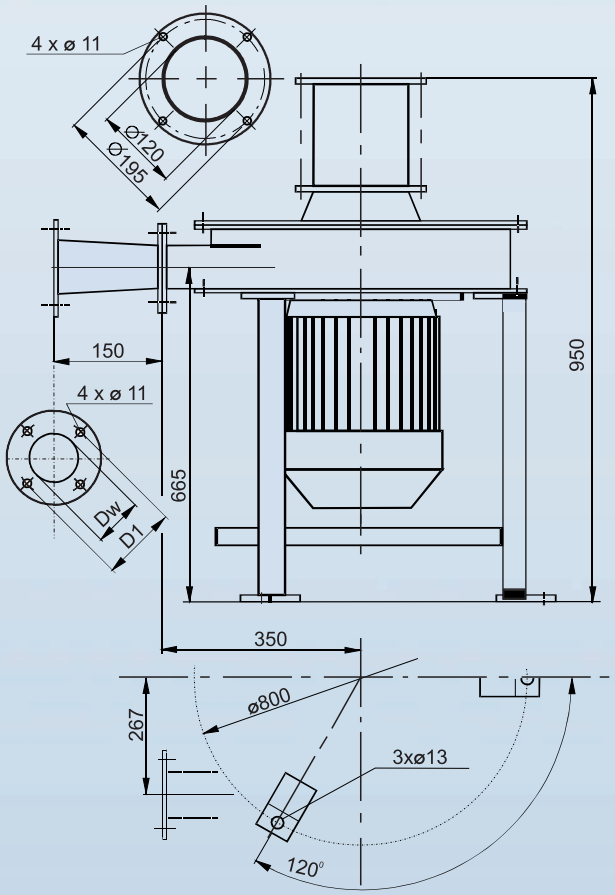
Impact pin detacher RZI
Infestation destroyer RZE

DRUM DETACHERS

RK-1-30, RK-1-30D

IMPACT DETACHERS

RZE-2, RZI-2

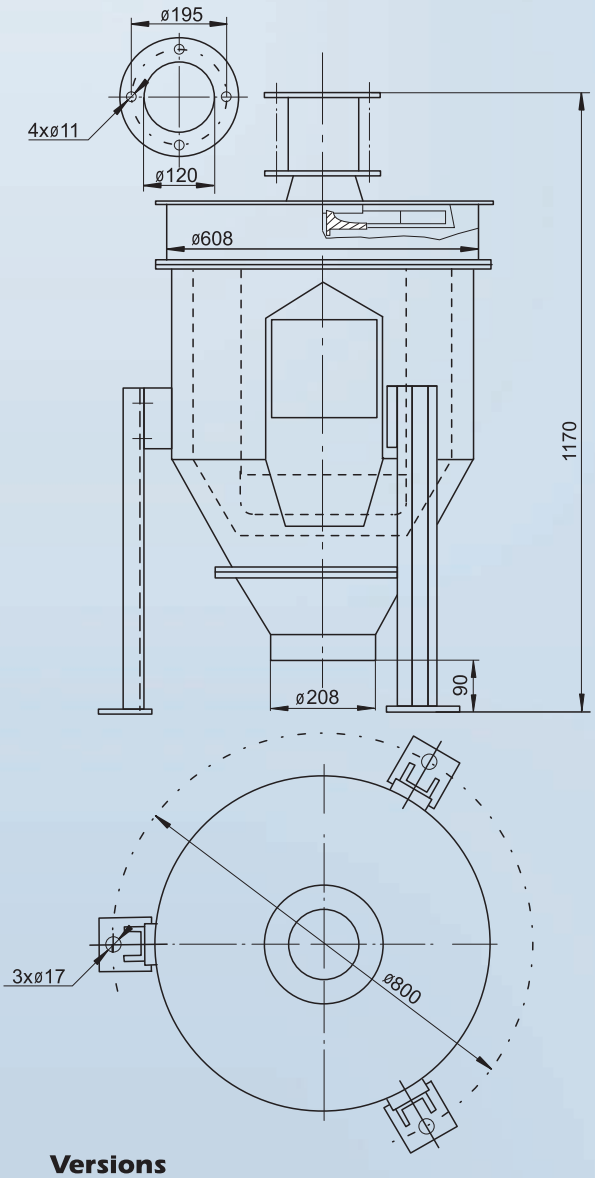


Dw [mm]	D1 [mm]
56,3 62,8 68,3 74,5 80,9	120
93,6 100 106,3	145
119	165

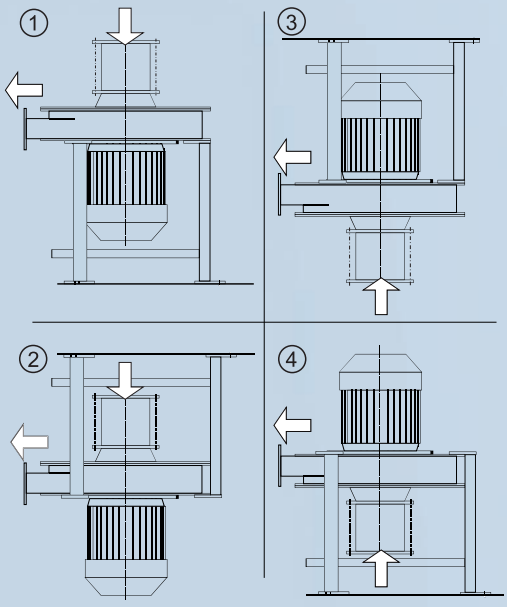
Dw - according to customer`s order.

For RZE-2 (infestation destoying) Dw=119mm.

RZE-3, RZI-3

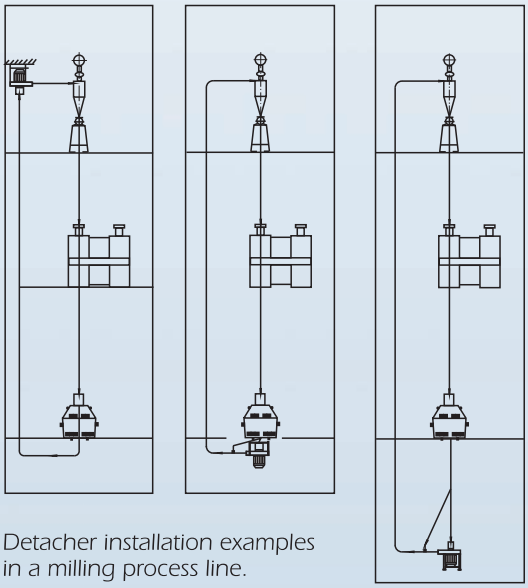


Versions



Features and advantages

- the use of detachers after smooth rolls on reduction passages can assist in increasing the passage flour yield by 10-25% without the increase in flour ash content (depending on grain hardness)
- more effective performance of sifter passages
- the product inside the detacher is thrown centrifugally against the walls of the chamber undergoing reduction without any alterations of its characteristics
- elimination of infestation at every stage of their development, both in grain and flour



Detacher installation examples
in a milling process line.

Semolinas and middlings - reduction

TYPE	Rotor diameter	Power index	Motor power	Revolution index	Rotation speed	Supply frequency	Capacity*	Mass	Sea packing		Version
	[mm]		[kW]		[rpm]	[Hz]	[t/h]	[kg]	Gross [kg]	Cubage [m^3]	
RZE 2-50	500	030	3,0	30	3000	50	do 1,0	116	215	0,9	1 ; 2
		040	4,0				1,0-2,0	125	224		
RZE 2-42	420	055	5,5	36	3600	60	2,0-3,5	139	238		
RZI 2-50	500	055	5,5	30	3000	50	do 1,0	147	248	0,9	1;2;3;4
		075	7,5				1,0-1,7	155	254		
		110	11,0	36	3600	60	1,7-2,8	167	266		
RZI 2-42	420	150	15,0				2,8-4,0	182	281		

Above-mentioned detachers can by manufactured as RZE-3, RZI-3. Parameters shown in the table remain unchanged.
For versions 3 and 4 the maximum productivity is 60% of the values shown in the table.

* Where a range of capacities is shown the lower capacity gives a greater milling efficiency.
The higher capacity gives to a reduced milling efficiency.
In some cases a higher motor power can give higher capacities.

Flour - infestation destroying

TYPE	Rotor diameter	Power index	Motor power	Revolution index	Rotation speed	Supply frequency	Capacity**	Mass	Sea packing		Version
	[mm]		[kW]		[rpm]	[Hz]	[t/h]	[kg]	Gross [kg]	Cubage [m^3]	
RZE 3-50	500	030	3,0	30	3000	50	do 1,0	184	284	1,2	1 ; 2
		040	4,0				1,0-2,0	193	293		
		055	5,5				2,0-4,0	210	310		
RZE 3-42	420	075	7,5	36	3600	60	4,0-6,0	218	318		
		110	11,0				6,0-9,0	229	329		
		150	15,0				9,0-12,0	244	344		

Grain - infestation destroying

TYPE	Rotor diameter	Power index	Motor power	Revolution index	Rotation speed	Supply frequency	Capacity**	Mass	Sea packing		Version
	[mm]		[kW]		[rpm]	[Hz]	[t/h]	[kg]	Gross [kg]	Cubage [m^3]	
RZE 3-50	500	030	3,0	10	1000	50	do 4,0	203	303	1,2	1 ; 2
		040	4,0				4,0-7,0	218	318		
		055	5,5				7,0-12,0	226	326		
RZE 3-42	420	075	7,5	12	1200	60	12,0-18,0	245	345		

** The lower capacities shown allow a higher intensity of infestation destroying.
The higher capacities leads to a reduced intensity of infestation destroying.

Detachers adapted to be supplied with voltage of frequency 60 Hz have the same parameters as those detachers shown in the table.

DRUM DETACHERS

Technical profile

Typ	Model	Max capacity	Rotor revolution [rpm]	Motor power [kW]	Weight [kg]
RK1-30	1	0,9	1000	1,5	84
	2	0,9	1620	1,5	84
	3	1,1	2260	1,5	84
	4	1,3	1000	2,2	89
	5	1,3	1620	2,2	89
	6	1,5	2260	2,2	89
	7	2,0	750	3,0	97
	8	2,2	1000	3,0	97
	9	2,2	1415	3,0	97
	10	2,6	750	4,0	105
	11	3,0	1000	4,0	105
	12	3,0	1445	4,0	105
RK1-30 D	1	1,1	750	2,2	93
	2	1,3	1000	2,2	93
	3	2,0	750	3,0	101
	4	2,2	1000	3,0	101
	5	2,6	750	4,0	108
	6	3,0	1000	4,0	108

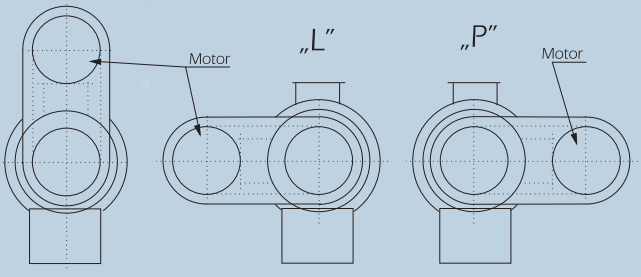
Drum detacher is designed for detaching flaked up grist obtained after smooth rolls; supports milling on reductions passages.

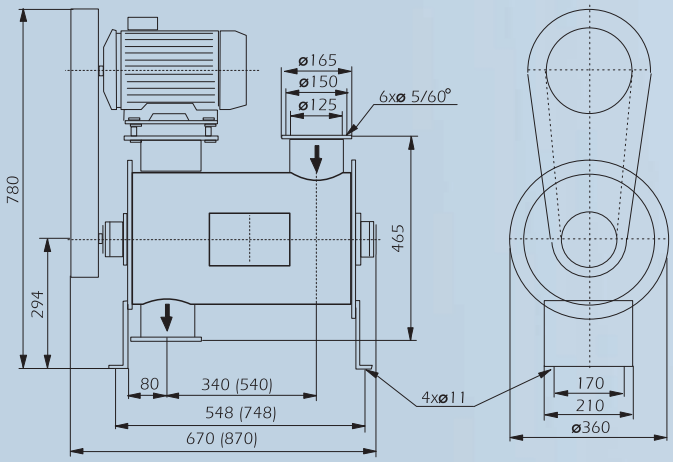
Design and Operation

A round steel body is placed on two brackets.
A rotor throws product against slats inside of the barrel and propels it to the outlet. The rotor is driven by a motor throught a V-belt transmission.
The motor is attached on the body, on an adjustable plate used to tension the belts. It is possible to attach the motor in three positions depending on version.
There are additional steel flanges for connecting a pipelines on inlet and outlet pieces.
Drum detacher RK-1-30 D is characterised by enlarge length of working part (see dimentions in paretnheses).

Model

without sign





Manufacturer reserves the right for modifications of parameters and devices appearance in the course of its improvement.