

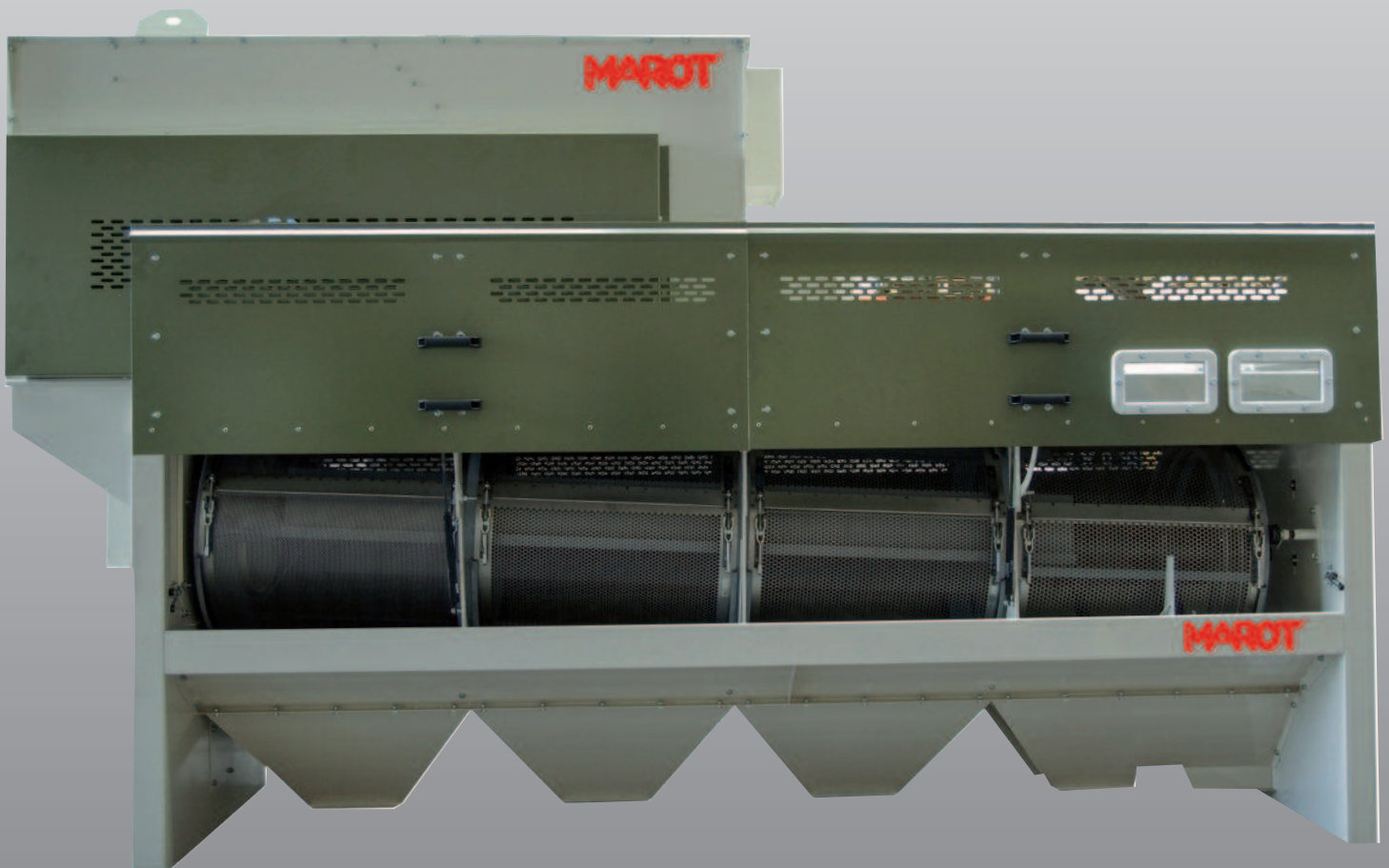


Owner and Manufacturer of the French trademark



EMILE MAROT®

ROTARY CLEANERS



Owner of the trademarks:



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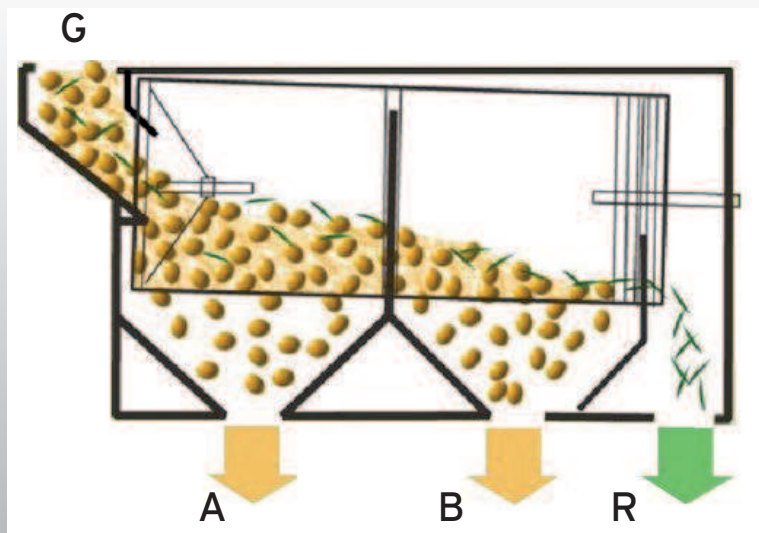
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SCREEN PRE-CLEANER



MAROT PN ("Pré-Nettoyeur") pre-cleaners are designed for simple and quick removal of large impurities and rubble from grain. This is essential prior to drying in order to avoid blockages and unnecessary expenditure in energy.

Grain enters into the rotating drum and passes through the screen perforations leaving the large rubble to be rejected at the end. The choice of screen perforation size depends upon the duty and the type of grain to be pre-cleaned. PN 601, 1002, 1253, 1503, 2004, 3003, 4004 and 5005 enable small trash to be rejected at the first screen section. The pre-cleaner has a large screen area and is equipped with a system to keep the perforations clear. Flow rates from 35 to 400 tonnes per hour can be achieved. Aspiration in various forms can also be added.



FLOW DIAGRAM

G : Raw Sample
R : Large rejects
A + B : Good grain

Models	PN601	PN1002	PN1253	PN1503	PN2004	PN3003	PN4004	PN5005
Duty* (t/h)	35	60	90	150	200	240	320	400
Number of screens	1	2	3	3	4	3	4	5
Drum diameter	805	805	805	1260	1260	1610	1610	1610
Screen area (m ²)	2,5	5	7.5	12	16	15	20	25
Power (kW)	2.2	2.2	2.2	4	4	11	11	15
Length (mm)	2420	3570	4720	4612	5755	5231	6381	7531
Width (mm)	1120	1120	1120	1700	1700	2000	2000	2000
Height (mm)	1660	1660	1660	2175	2175	2500	2500	2500
Packed volume (m ³)	4.5	6.6	8.8	17.1	21.3	26.2	31.9	37.7
Weight (kg) empty	540	770	960	2010	2260	3300	4000	4700

*Pre-cleaner maize/corn (0.75 t/m³) at 35% moisture content

Concerned with improving continuously our manufacturing, we reserve the right to modify without any notice the specifications mentioned in this document



CLEANER - GRADER

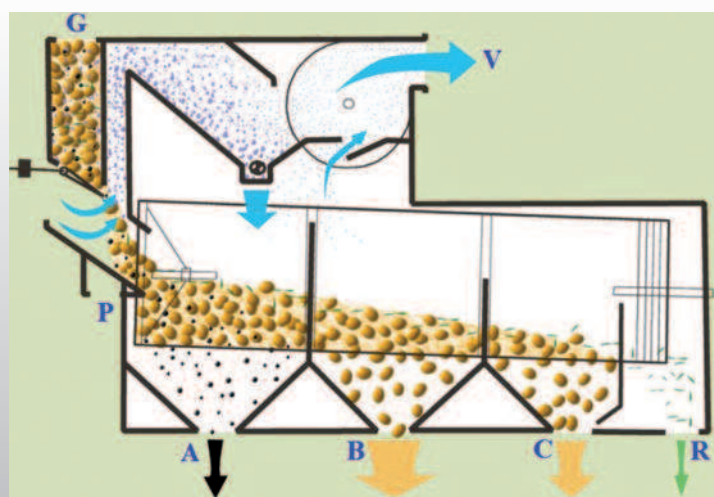


MAROT EAC ("Ensemble Aspiration Crible") machines separate good quality grain from screenings and trash. The machine consists of an aspiration system followed by a rotary drum.

The incoming grain creates a uniform curtain of product through which air is drawn. The quantity of light aspirations lifted from the incoming grain is adjusted by regulating the airflow. The heavy aspirations fall from the airflow and are deposited in the bottom of the aspiration chamber from where they are extracted by a screw conveyor. The lightest rejects are blown out by the fan (V). If only aspiration is required, the product can be discharged at (P). After aspiration the product is fed into the rotating drum. Screens to suit any particular product may be fitted with variable speed and inclination⁽¹⁾. The first screen removes split grains, sand etc., successive screens allowing the final product to pass. Oversize particles are discharged at the end.

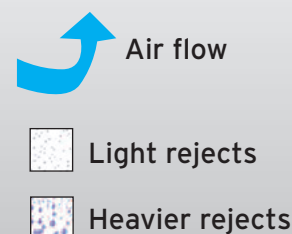


The very large choice of screen combinations gives great flexibility of use with any type of grain or pulse, with throughputs from 5 to 400 tonnes per hour. When operated as a grader, the final sample is overtailed through (R), and the small seeds pass through the screens.



FLOW DIAGRAM

- A : Screenings etc
- G : Raw Sample
- B : Clean Grain
- C : Clean Grain
- R : Oversized Rejects
- P : Pre-cleaning Outlet



Models	NOT VARIABLE			VARIABLE						
	EAC 53	EAC 153	EAC 354	EAC 503	EAC 704	EAC 1103	EAC 2004	EAC 3003	A4010/ C4.1610	A4010/ C5.1610
Duty* (t/h)	5	15	25	50	70	110	200	250	300	400
Number of screens	3	3	4	3	4	3	4	3	4	5
Drum diameter	460	630	630	805	805	1260	1260	1610	1610	1610
Screen area (m ²)	2	4	5	7.5	10	12	16	15	20	25
Fan Output (m ³)	3500	6000	6000	6000	6000	12000	12000	16000	23000	23000
Drum power (kW)		1.1	1.1	2.2	2.2	4	4	11	11	15
Feed Roll power (kW)						0.37	0.37	0.37	2x0.37	2x0.37
Fan power (kW)	0.75	2.2	2.2	3	3					
Auger power (kW)						0.37	0.37	0.37	0.37	0.37
Length (mm)	2480	3130	3804	4960	6110	4512	5869	5551	6863	8013
Width (mm)	762	1295	1295	1490	1490	2150	2150	2545	3185	3185
Height (mm)	1292	1990	1990	2720	2720	3520	3520	4045	6340	6340
Packed volume (m ³)	2.4	8.1	9.8	20.1	24.8	34.1	44.4	57.1	138.6	161.8
Weight (kg) empty	280	650	770	1240	1370	3085	3335	4700	5700	6000

*Cleaning wheat (0.75 t/m³) at 15% moisture content, containing maximum 2% impurities

⁽¹⁾ Variable speed and inclination from 805mm

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GRADERS

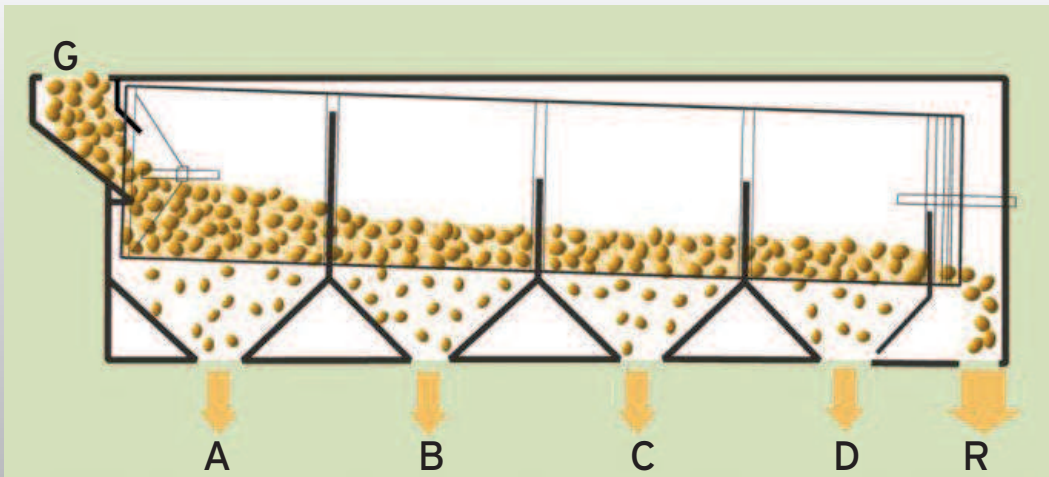


MAROT graders separate grains according to their physical size. The accuracy of selection is obtained by the rotating drum, which can have variable speed and inclination. The choice of model will be based on the number of separations or grades required as well as the duty.

The first prefix denotes the number of sections/ screens (2 to 5), and the second the diameter of the drum (630 to 1610 mm). When many separations are required (such as for coffee and cocoa) grading is possible by combining several machines in series or parallel.



FLOW DIAGRAM



A B C D : Undersized grading
G : Input sample
R : Malting sample

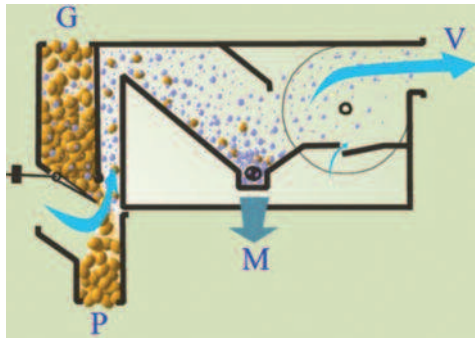
Models	3/630	4/630	5/630	3/805	4/805	5/805	3/1260	4/1260	5/1260	3/1610	4/1610	5/1610
Duty* (t/h)	3	4	6	10	14	18	20	30	40	35	45	60
Number of screens	3	4	5	3	4	5	3	4	5	3	4	5
Drum diameter	630	630	630	805	805	805	1260	1260	1260	1610	1610	1610
Screen area (m ²)	4	5	6.5	7.5	10	12.5	12	16	20	15	20	25
Drum power (m ² /h)	0.75	0.75	0.75	2.2	2.2	2.2	4	4	5.5	11	11	15
Length (mm)	2890	3565	4240	4720	5870	7020	4612	5755	6947	5231	6381	7531
Width (mm)	868	868	868	1120	1120	1120	1700	1700	1700	2000	2000	2000
Height (mm)	1270	1270	1270	1660	1660	1660	2175	2175	2175	2500	2500	2500
Packed volume (m ³)	3.2	3.9	4.7	8.8	10.9	13	17	21.3	25.7	26.1	31.9	37.6
Weight (kg) empty	435	520	610	960	1170	1380	2010	2260	2510	3300	4000	4700




*Grading malting barley (0.6 t/m³) - 2 grades - over 2.5mm

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ASPIRATORS



-  Grain
-  Heavier rejects
-  Light rejects



MAROT Aspirators are designed to remove light impurities from the grain and at the same time separate the heavy aspirated material from the light dust.

machine via the feed hopper (G) and spread into a curtain by means of an adjustable baffle. Air is drawn through the grain removing the light impurities.

airflow and are discharged by a screw (M). The lightest aspirations are exhausted via the fan (V).

They are used as single machines or in conjunction with a rotary cleaner. The raw sample is introduced into the

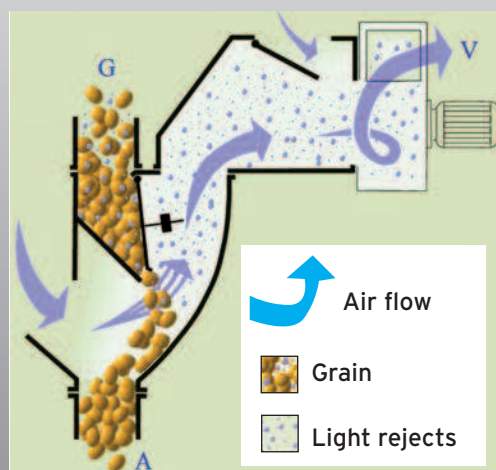
A feed roller assists the regular flow of grain. In the aspiration chamber the heaviest particles drop out of the



These compact machines are simple to integrate into an intake system with throughputs from 70 to 500 t/h.

Models	Throughput* (t/h)		Aspiration		Power			Dimensions			Volume m ³	Weight (kg) Empty
	Pre-cleaning	Cleaning	m ³ /h	mm W.G.	Auger	Machine Details	Fan	Length	Width	Height		
A350	45	40	6000	50			2.2	2120	1295	1290	3.5	250
A510	90	70	6000	50			3	2590	1490	1685	6.5	350
A2010	250	200	12000	50	0.37	0.37		2778	2220	2290	14.1	660
A3010	300	250	16000	50	0.37	0.37		3010	2620	2747	21.7	980
A4010	500	400	23000	50	0.37	2x0.37		3185	2585	3543	29.2	1220

*Based on grain (0.75 t/m³) at 15% moisture content, containing maximum 2% impurities

DUST ASPIRATION



-  Grain
-  Light rejects

MAROT dust aspirators are designed for simple <<in-line>> installation. The grain is spread in a uniform curtain through which the air is drawn. The proportion of light impurities lifted from the grain is adjusted by varying the airflow by way of a flap, which allows outside air to be bled into the upper chamber prior to the fan.

Given their small overall dimensions, BD aspirators can be very easily inserted into a conveying system.

Models	Throughput* (t/h)	Aspiration		Total power (kW)	Dimensions			Volume (m ³)	Weight (kg)	
		Air flow (m ³)	Pressure mm W.G.		Length	Width	Height		Empty	Loaded
BD600	60	2700	50	1,5	1560	512	1900	1,5	105	135
BD1000**	100	6000	50		1264	580	2195	1,6	130	180
BD2000**	180	12000	50		1890	1180	2629	5,6	150	280

*wheat (0.75 t/m³) at 15% moisture content, containing maximum 2% impurities

**Without fan



Duty required	Recommended Machine	Indicative performance									
		Wheat	Barley	Maize/Corn		Rice		Sunflower		Peas	Rape
		15%	15%	15%	35%	12%	22%	12%	20%	16%	10%
Dust Aspiration	BD 600	60	50	60	35	15	10			60	20
	BD 1000	100	80	100	60	25	15			100	40
	BD 2000	180	160	180	120	45	30			180	80
Aspiration Pre-cleaning	A 350	40	35	40	25	15	10	20	15	40	15
	A 510	70	55	70	45	30	20	35	25	70	25
	A 2010	200	170	200	120	50	40	100	70	200	80
	A 3010	250	220	250	150	60	30	120	90	250	100
	A 4010	400	350	400	250	100	80	200	160	400	180
Screen Pre-cleaning	PN 601	60	50	60	35	12	10	30	20	60	25
	PN 1002	100	80	100	60	20	15	50	35	100	40
	PN 1253	125	90	125	90	25	20	60	40	125	50
	PN 1503	200	160	200	150	40	30	100	70	200	80
	PN 2004	250	200	250	200	50	40	125	80	250	100
	PN 3003	300	240	300	240	60	50	150	100	300	120
	PN 4004	400	320	400	320	80	60	200	150	400	160
Aspiration and Screen Cleaning	PN601/BD600	60	50	60	35	15	10	25	20	60	10
	PN1002/BD1000	100	80	100	60	25	15	40	30	90	20
	PN1503/BD2000	180	160	180	150	50	30	70	55	180	50
Cleaning	EAC53	5	4	5				2	2	5	2
	EAC153	15	12	15	9	3	2	6	5	15	5
	EAC354	25	20	25	15	5	4	10	9	25	9
	EAC503	50	40	50	30	10	8	20	18	50	20
	EAC704	70	55	70	40	14	11	30	25	70	30
	EAC1103	110	90	110	65	20	16	50	45	110	45
	EAC2004	200	160	200	120	40	30	80	70	200	70
	EAC3003	250	200	250	150	50	40	90	80	250	90
	A4010/C4.1610	300	240	300	180	60	50	120	110	300	120
A4010/C5.1610	400	320	400	240	80	60	160	150	400	160	

The capacities shown are indicative based upon an incoming sample containing maximum 2% impurities. Capacities may vary according to variety, moisture content, quantity and nature of impurities in the raw sample. Our research and development department is at your disposal for any assistance in the determination of your requirements.

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