

# PR - PRA - PRD SERIES Rotary cleaners

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**METALMONT**

HANDLING INNOVATION

# PR - PRA - PRD SERIES ROTARY CLEANERS

Reliable performance, construction quality,  
easy assembly: the perfect solution

The “PR” rotary cleaner systems are used to pre-clean granular products such as wheat, barley, sunflower, rice, soya, etc. The good product passes through holes of different diameter, chosen according to the product to be treated, while the coarser foreign bodies are removed at the end of the drum. With this type of pre-cleaning it is possible to quickly remove the unwanted coarser parts such as straw, pieces of wood, stones, pieces of corn, etc.

## PR SERIES

**RANGE** from 20 to 400 t/h - different flow rates available on request



MODEL	U.M.	PR-6/2	PR-6/3	PR-6/4	PR-6/5	PR-9/2
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 20%;	t/h	20	30	40	50	50
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 20%;	t/h	20	30	40	50	46
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 16%;	t/h	10	15	20	25	25
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	15	23	30	38	38
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 20%;	t/h	5	8	10	13	10
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; u.r. 10%;	t/h	8	12	15	20	20
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	15	23	30	38	38
No. of grids	n	2	3	4	5	2
Drum diameter	mm	630	630	630	630	900
Width of individual grid	mm	650	650	650	650	840
Grid areas	m <sup>2</sup>	2,6	3,9	5,1	6,4	4,8
Drum gearmotor power	kW	0,75	0,75	1,1	1,5	1,5
Recommended electric start for the gearmotor		soft start	soft start	soft start	soft start	soft start

#### GENERAL DIMENSIONS

Length	mm	2.420	3.100	3.780	4.460	2.950
Width	mm	800	800	800	800	1.100
Height	mm	1.730	1.730	1.730	1.730	2.065
Height for shipment	mm	1.800	1.800	1.800	1.800	2.095
Inlet flange dimensions	mm	210 x 210	210 x 210	210 x 210	210 x 210	300 x 300
Outlet flange dimensions	mm	190 x 340	190 x 340	190 x 340	190 x 340	340 x 500
Large waste outlet flange dimensions	mm	190 x 340	190 x 340	190 x 340	190 x 340	340 x 430
Height from ground outlet flange	mm	485	485	485	485	485
Product outlet center distance	mm	670	670	670	670	860
Width of the perforated part of the grid	mm	570	570	570	570	740
Waste product outlet center distance	mm	510	510	510	510	525
Net weight (with grids)	kg	310	627	525	650	820

In order to improve the product and for regulatory compliance, the technical specifications, appearance and equipment described in this document may be subject to change without prior notice.

MODEL	U.M.	PR-9/3	PR-9/4	PR-9/5	PR-12/3	PR-12/4
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 20%;	t/h	75	100	125	120	150
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 20%;	t/h	68	93	111	103	138
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 16%;	t/h	35	50	60	60	75
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	57	76	96	92	115
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 20%;	t/h	15	20	25	22	25
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; u.r. 10%;	t/h	25	40	50	50	60
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	57	76	96	92	115
No. of grids	n	3	4	5	3	4
Drum diameter	mm	900	900	900	1.200	1.200
Width of individual grid	mm	840	840	840	840	840
Grid areas	m <sup>2</sup>	7,1	9,5	11,9	9,5	12,7
Drum gearmotor power	kW	2,2	3,0	4,0	3,0	4,0
Recommended electric start for the gearmotor		soft start	soft start	soft start	soft start	soft start

#### GENERAL DIMENSIONS

Length	mm	3.860	4750	5.650	3.870	4.820
Width	mm	1.100	1.100	1.100	1.400	1.400
Height	mm	2.065	2.065	2.065	2.400	2.400
Height for shipment	mm	2.095	2.095	2.095	2.430	2.430
Inlet flange dimensions	mm	300 x 300	300 x 300	300 x 300	300 x 300	300 x 300
Outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500	340 x 500	340 x 500
Large waste outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500	340 x 500	340 x 500
Height from ground outlet flange	mm	485	485	485	365	365
Product outlet center distance	mm	860	860	860	860	860
Width of the perforated part of the grid	mm	740	740	740	740	740
Waste product outlet center distance	mm	560	560	560	560	560
Net weight (with grids)	kg	970	1.130	1.285	1.280	1.540

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MODEL	U.M.	PR-12/5	PR-16/3	PR-16/4	PR-16/5
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 20%;	t/h	200	240	320	400
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 20%;	t/h	182	220	300	370
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 16%;	t/h	100	120	160	205
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	153	180	246	307
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 20%;	t/h	32	40	50	65
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; u.r. 10%;	t/h	80	95	130	160
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 16%;	t/h	153	180	246	307
No. of grids	n	5	3	4	5
Drum diameter	mm	1200	1600	1600	1600
Width of individual grid	mm	840	950	950	950
Grid areas	m <sup>2</sup>	15,8	14,3	19,1	23,9
Drum gearmotor power	kW	5,5	5,5	7,5	9,2
Recommended electric start for the gearmotor		soft start	soft start	soft start	soft start

#### GENERAL DIMENSIONS

Length	mm	5.720	4.680	5.680	6.680
Width	mm	1.400	2.095	2.095	2.095
Height	mm	2.400	2.200	2.200	2.200
Height for shipment	mm	2.430	2.240	2.240	2.240
Inlet flange dimensions	mm	300 x 300	400 x 400	400 x 400	400 x 400
Outlet flange dimensions	mm	340 x 500	350 x 350	350 x 350	350 x 350
Large waste outlet flange dimensions	mm	340 x 500	350 x 350	350 x 350	350 x 350
Height from ground outlet flange	mm	365	90	90	90
Product outlet center distance	mm	860	1.000	1.000	1.000
Width of the perforated part of the grid	mm	740	880	880	880
Waste product outlet center distance	mm	560	650	650	650
Net weight (with grids)	kg	1.910	2.100	2.450	2.800

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## PRA SERIES

The PRA rotary cleaner is the combined solution consisting of a PR Series rotary cleaner and a Metalmont PA Series suction cleaner. In this configuration, the machine can efficiently and accurately clean and sort the product with a significant reduction of dust emissions into the atmosphere.

**RANGE** from 50 to 150 t/h - different flow rates available on request



MODEL	U.M.	PRA-9/3	PRA-9/4	PRA-9/5
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 14%;	t/h	50	70	90
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 14%;	t/h	45	60	80
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 12%;	t/h	25	35	45
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	35	50	65
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	9	13	17
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; RH 10%;	t/h	16	28	36
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	35	50	65
No. of grids	n	3	4	5
Drum diameter	mm	900	900	900
Grid areas	m <sup>2</sup>	7,1	9,5	11,9
Drum gearmotor power	kW	2,2	3,0	4,0
Recommended electric start for the gearmotor		soft start	soft start	soft start
Suction fan power	kW	3,0	4,0	5,5
Suction fan flow rate	m <sup>3</sup> /h	3.600	4.320	6.500

#### GENERAL DIMENSIONS

Length	mm	4.560	5.460	6.350
Width	mm	1.100	1.100	1.100
Height	mm	3.500	3.500	3.600
Max height for shipment	mm	2.095	2.095	2.095
Inlet flange dimensions	mm	300 x 300	300 x 300	300 x 300
Outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500
Height from ground outlet flange	mm	485	485	365
Product outlet center distance	mm	860	860	860
Width of the perforated part of the grid	mm	740	740	740
Waste product outlet center distance	mm	560	560	560
Net weight (with grids)	kg	970	1.130	1.270

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MODEL	U.M.	PRA-12/3	PRA-12/4	PRA-12/5
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 14%;	t/h	100	120	150
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 14%;	t/h	90	110	135
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 12%;	t/h	50	60	75
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	75	90	115
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	18	20	25
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; RH 10%;	t/h	40	48	60
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	75	90	115
No. of grids	n	3	4	5
Drum diameter	mm	1.200	1.200	1.200
Grid areas	m <sup>2</sup>	9,5	12,7	15,8
Drum gearmotor power	kW	3,0	4,0	5,5
Recommended electric start for the gearmotor		soft start	soft start	soft start
Suction fan power	kW	7,5	7,5	11,0
Suction fan flow rate	m <sup>3</sup> /h	7.500	7.500	10.800

#### GENERAL DIMENSIONS

Length	mm	4.570	5.520	5.720
Width	mm	1.400	1.400	1.400
Height	mm	3.800	3.800	3.800
Max height for shipment	mm	2.430	2.430	2.430
Inlet flange dimensions	mm	300 x 300	300 x 300	300 x 300
Outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500
Height from ground outlet flange	mm	365	365	365
Product outlet center distance	mm	860	860	860
Width of the perforated part of the grid	mm	740	740	740
Waste product outlet center distance	mm	560	560	560
Net weight (with grids)	kg	1.280	1.540	1.910

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## PRD SERIES

The PRD series rotary cleaner is the combined solution consisting of a PR Series rotary cleaner and a Metalmont PD Series suction cleaner. In this configuration, the machine can efficiently and accurately clean and sort the product with a significant reduction of dust emissions into the atmosphere.

**RANGE** from 50 to 300 t/h - different flow rates available on request



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MODEL	U.M.	PRD-9/3	PRD-9/4	PRD-9/5	PRD-12/3
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 14%;	t/h	50	70	90	100
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 14%;	t/h	45	60	80	90
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 12%;	t/h	25	35	45	50
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	35	50	65	75
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	9	13	17	18
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; u.r. 10%;	t/h	16	28	36	40
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	35	50	65	75
No. of grids	n	3	4	5	3
Drum diameter	mm	900	900	900	1200
Grid areas	m <sup>2</sup>	7,1	9,5	11,9	9,5
Drum gearmotor power	kW	2,2	3,0	4,0	3,0
Recommended electric start for the gearmotor		soft start	soft start	soft start	soft start
Suction fan power	kW	3,0	4,0	5,5	7,5
Suction fan flow rate	m <sup>3</sup> /h	3.600	4.320	6.500	7.500
Inlet product distribution roller power	kW	0,18	0,18	0,18	0,37
Waste screw power	kW	0,18	0,18	0,18	0,37
<b>GENERAL DIMENSIONS</b>					
Length	mm	3910	4.770	5.630	3.900
Width	mm	1.500	1.500	1.500	1.800
Height	mm	3.600	3.600	3.600	4.000
Max height for shipment	mm	2.095	2.095	2.095	2.430
Inlet flange dimensions	mm	300 x 300	300 x 300	300 x 300	300 x 300
Outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500	340 x 500
Large waste outlet flange dimensions	mm	340 x 500	340 x 500	340 x 500	340 x 500
Height from ground outlet flange	mm	485	485	485	365
Product outlet center distance	mm	860	860	860	860
Width of the perforated part of the grid	mm	740	740	740	740
Waste product outlet center distance	mm	560	560	560	560
Net weight (with grids)	kg	1.720	1.880	2.080	2.160

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MODEL	U.M.	PRD-12/4	PRD-12/5	PRD-16/4	PRD-16/5
Flow rate in wheat cleaning s.w. 0,78 t/m <sup>3</sup> ; RH 14%;	t/h	125	170	220	300
Flow rate in corn cleaning s.w. 0,72 t/m <sup>3</sup> ; RH 14%;	t/h	115	155	200	275
Flow rate in sunflower cleaning s.w. 0,40 t/m <sup>3</sup> ; RH 12%;	t/h	60	85	110	150
Flow rate in soya cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	95	130	165	230
Flow rate in paddy rice cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	21	27	33	48
Flow rate in rapeseed cleaning s.w. 0,65 t/m <sup>3</sup> ; u.r. 10%;	t/h	50	68	89	120
Flow rate in barley cleaning s.w. 0,60 t/m <sup>3</sup> ; RH 12%;	t/h	95	130	165	230
No. of grids	n	4	5	4	5
Drum diameter	mm	1.200	1.200	1.600	1.600
Grid areas	m <sup>2</sup>	12,7	15,8	19,1	23,9
Drum gearmotor power	kW	4,0	5,5	7,5	9,2
Recommended electric start for the gearmotor		soft start	soft start	soft start	soft start
Suction fan power	kW	7,5	11,0	15,0	15,0 - 18,5
Suction fan flow rate	m <sup>3</sup> /h	7.500	10.080	10.080	14.400
Inlet product distribution roller power	kW	0,37	0,37	0,37	0,75
Waste screw power	kW	0,37	0,37	0,37	0,37
<b>GENERAL DIMENSIONS</b>					
Length	mm	4.800	5.700	5.800	6.800
Width	mm	1.800	1.800	2.400	2.400
Height	mm	4.000	4.000	3.800	3.800
Max height for shipment	mm	2.430	2.430	2.240	2.240
Inlet flange dimensions	mm	300 x 300	300 x 300	400 x 400	400 x 400
Outlet flange dimensions	mm	340 x 500	340 x 500	350 x 350	350 x 350
Large waste outlet flange dimensions	mm	340 x 500	340 x 500	350 x 350	350 x 350
Height from ground outlet flange	mm	365	365	90	90
Product outlet center distance	mm	860	860	1.000	1.000
Width of the perforated part of the grid	mm	740	740	880	880
Waste product outlet center distance	mm	560	560	650	650
Net weight (with grids)	kg	2.420	2.800	3.450	3.800

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# ACCESSORIES AND DEVICES

	PR-6	9/3	9/4	9/5	12/3	12/4	12/5	16/4	16/5
Series of internal product distribution blades	●	●	●	●	●	●	●	●	●
Manually-operated deflector under the last grid	●	●	●	●	●	●	●	●	●
A series of grids supplied with the machine	●	●	●	●	●	●	●	●	●
PVC cleaning brushes mounted on the machine	●	●	●	●	●	●	●	●	●
Evacuation spiral of large waste	●	●	●	●	●	●	●	●	●
Visual inspection porthole on the grid access door	●	●	●	●	●	●	●	●	●
Visual inspection porthole on the PD and PA Series cleaner	NA	●	●	●	●	●	●	●	●
Manual drum inclination adjustment	●	●	●	●	●	●	●	●	●
Motorised drum inclination adjustment with limit switch	○	○	○	○	○	○	○	○	○
Series of dry beech rollers with support weight	○	○	○	○	○	○	○	○	○
Machine in ATEX 22 execution	○	○	○	○	○	○	○	○	○
Manual inlet by-pass	○	○	○	○	○	○	○	○	○
Manual inlet by-pass with limit switch	○	○	○	○	○	○	○	○	○
Motorised inlet by-pass with limit switch	○	○	○	○	○	○	○	○	○
Clean product collection hopper for 2 grids	○	○	○	○	○	○	○	○	○
Clean product collection hopper for 3 grids	○	○	○	○	○	○	○	○	○
Clean product collection hopper for 4 grids	○	NA	○	○	NA	○	○	○	○
Waste hopper	○	○	○	○	○	○	○	○	○
10 mm thick polyethylene hopper coatings	○	○	○	○	○	○	○	○	○
Cleaner grid holder frame	○	○	○	○	○	○	○	○	○
Walkway and cleaner supports (according to plant)	○	○	○	○	○	○	○	○	○

● - Standard

○ - Optional

NA - Not available



**METALMONT**  
HANDLING INNOVATION

Metalmont s.r.l.  
Via Guglielmo Marconi, 92  
31020 Revine Lago (TV) Italy  
☎ +39 0438 562028  
✉ info@metalmont.it

**METALMONT.IT**