

MDW series

Gravimetric dosing units

Benefits:

- **Maximum flexibility of usage:** The unit can be supplied with 2 up to 8 modular dosing stations of various capacity (slide gate or screw). The stations can be added at subsequent times, in line with the production requirements.
- **High dosing precision and repeatability at every single batch:** The powerful and quick control system guarantees an accuracy of $\pm 0.3\%$. Dosing percentages of 0.5% with the slide gate device.
- **Perfect mixing of the components:** The new mixer with semi-spheric shape and the particular design of the shaft thoroughly mix the entire mass of granules, without preferential flows nor material stagnation.
- **Immediate dialogue unit-operator:** The control ensures a user-friendly and immediate usage, without necessity to look at the guide. The main operative parameters are displayed in a single screen.
- **Especially suited for applications with machines with repeated vibrations:** The fast scanning software and quick adjustment of the blender's functioning contribute to the blender's immunity from the vibrations of the processing machine.



The Piovan gravimetric blenders, of the MDW line, are available in various configurations and can dose and weigh up to 8 granular materials, allowing to select the most appropriate hopper capacities and dosing devices.

The blenders can be combined with injection and blow moulding machines, and extruders, covering productions from 30 up to a maximum of 1800 kg/h.

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The microprocessor electronic control features high execution speed and simple setting of the unit.

As operator interface, it is possible to select the simplified keypad or the more advanced version called Premium, complete with touch screen panel with bright 8.5" screen. A single screen summarizes all the main information on the blender's functioning, including the comparison between the set and the real dosing percentages as well as the data of the instantaneous production of the unit. Moreover, it is possible to access additional func-

tions, such as access management and event/alarm management. Once the percentages of the formulas have been set, the blender starts dosing immediately and reaches the stabilization of the dosed quantities after a few batches only.

The standard configuration includes the Ethernet port and the USB interface to permit the download and consultation of the functioning data off line for useful elaboration, and the communication with other systems, such as the supervisory Piovan Win Factory software. It is a standardized

platform which allows managing all the auxiliaries from remote stations. With the Dosing module, Win Factory offers the function of consumption calculation of raw materials in order to optimize stock management and the possibility to manage production jobs with quality certification.



TECHNICAL DATA		MDW90	MDW200	MDW400	MDW600	MDW1200	MDW1800
Max. throughput	kg/h	90*	200*	400*	600*	1200*	1800*
Minimum dosing - standard slide gate station	%	1,5					
Minimum dosing - slide gate station with reduction	%	0,7	0,5				
Minimum dosing - screw station	%	0,3					
Dosing range - oversize slide gate station	%	10 - 100				15 - 100	
Capacity of the dosing station	dm ³	8 - 18 20 - 35	10 - 20 30 - 70	10 - 20 30 - 70	17 - 20 - 40 45 - 90	20 - 40 - 45 90 - 130	20 - 40 - 45 90 - 130
Capacity of the mixing chamber	dm ³	6	14	16	16	60	60
Batch volume	kg	1,5	2,5	3,5	5	12	20
Max. slide gate stations	n.	4	6				
Max. screw stations	n.	2	2				
Max. noise level	dB(A)	<70					
Total installed power*	kW	0,25**/ 0,31***	0,22**/ 0,28***	0,25**/ 0,31***	0,25**/ 0,31***	0,75**/ 0,9***	0,75**/ 0,9***
Dimensions	L1	1720	1770	1800	1800	2070	2070
	L	760	1030	1050	1060	1315	1440
	W	860	960	970	970	1185	1185
	H	1065	1250	1370	1570	1840	1840
	A	255	225	285	285	600	600
	B	249	299	329	329	600	600
	C	88	88	88	88	135	135
Weight	kg	170	200	240	280	400	450

Voltage/Frequency MDW200-400-600: 230/1/50 - 220/1/60

Voltage/Frequency MDW1200-1800: 400/3/50 - 380/3/60

*: Configuration with 3 slide gate stations, bulk density 0.55 kg/dm³

** : 50Hz

***: 60Hz

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