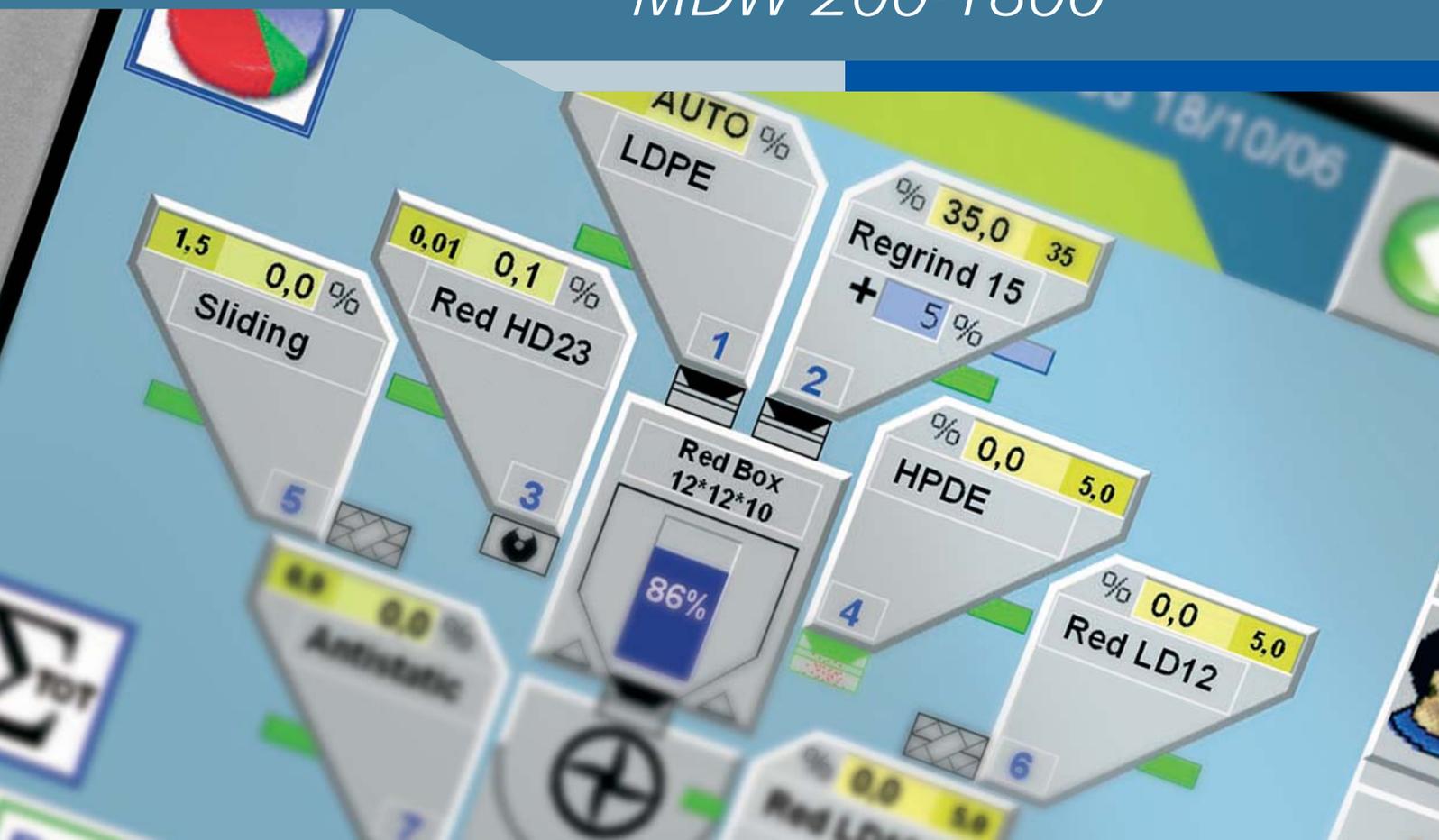


# Gravimetric blenders MDW 200-1800



English

The new Piovan gravimetric blenders MDW can dose and weigh up to 8 granule materials, allowing to select the most appropriate hoppers capacities and dosing devices. The blenders can be combined with injection and blow moulding machines, and extruders, covering productions from 200 up to a maximum of 1800 kg/h.



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▶ Distinctive advantages

> **Maximum flexibility of usage.**

The unit can be supplied with 2 up to 8 modular dosing stations of various capacity, equipped with slide gate or screw. The stations can be added at subsequent times, in line with the production requirements.



> **Perfect mixing of the components.**

The new mixer with round bottom shape and the particular design of the shaft thoroughly mix the entire mass of granules, without preferential flows nor material stagnation.

The mixer in stainless steel and with no welding points avoids the formation of dust caused by friction and of batch contamination.

> **High dosing precision and repeatability at every single batch.**

The powerful and quick control system guarantees an accuracy of  $\pm 0.3\%$ . It keeps the set dosing values constant by automatically carrying out a continuous adjustment in the case of discrepancies.

> **Accurate consumption of the components, without wastage:**

the inclined handy device for emptying the hoppers favours the material descent and allows the operator to recover the granules completely at every production shift, in a rapid and easy manner.



> **Dosing percentages of 0.5% with the slide gate device.**

The new completely redesigned and more powerful dosing groups achieve outstanding performances, without risk of material jamming or contamination, thanks to the perfect coupling between the hopper and the slide gate body.

> **Optimal functioning with any type of material.**

The material transferring from the weighing hopper to the mixing chamber is controlled by a high resolution load cell, which is not in contact with the materials.



The feeding hoppers are equipped with a **useful window to check the material level**. They can be supplied with **anti-static level sensor**, which signals material shortage and activates adequate working programs, such as the one of regrind management.

In addition to the standard painted version, a **stainless steel version** is available on request. The latter is recommended for those productions where the risk of contamination is to be avoided, such as in the medical and food applications.

▶ Control of the latest generation

The MDW range is equipped with a **powerful microprocessor control**, with high execution speed and available with a basic operator interface keyboard or the Premium one with **8.5" touch screen panel**.

A single screen with extremely intuitive and user-friendly graphics allows the operator to keep under control the unit's functioning status, to compare the set percentages with the real dosing values, to check production values in real time.

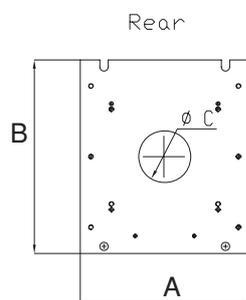
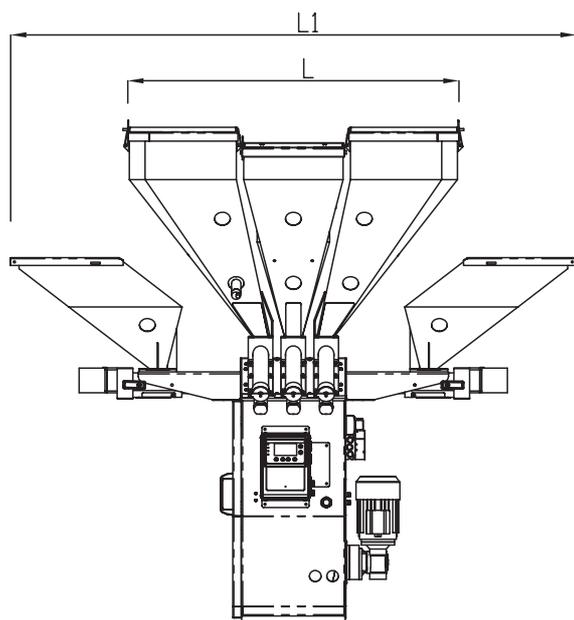


The control permits the activation of a special program to optimise the regrind management, which adjusts the doser's functioning in the case of presence or shortage of this component.

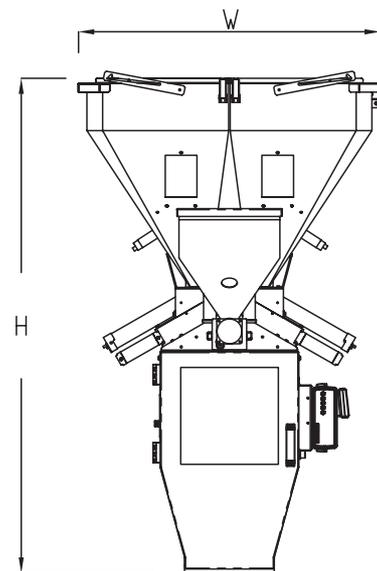
The Turbo function permits to increase the production of the blender by alternating gravimetric dosing cycles with volumetric ones, keeping the features of precision and repeatability of the dosing cycles unaltered.

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, and make it especially suited for applications with machines with repeated vibrations.

The standard version including the Ethernet port and of the USB interface allow the communication with other systems and data exportation/download for remote assistance.



Front



## Technical Data

		MDW 200	MDW 400	MDW 600	MDW 1200	MDW 1800	
Max. throughput	kg/h	200*	400*	600*	1200*	1800*	
Minimum dosing - standard slide gate station	%	1,5					
Minimum dosing - slide gate station with reduction	%	0,5					
Minimum dosing - screw station	%	0,3					
Dosing range - oversize slide gate station	%	10 - 100			15 - 100		
Capacity of the dosing station	dm <sup>3</sup>	10 - 20 30 - 70	10 - 20 30 - 70	17 - 20 40 - 45 - 90	20 - 40 90 - 130	20 - 40 90 - 130	
Capacity of the mixing chamber	dm <sup>3</sup>	12	16	16	60	60	
Batch volume	kg	2,5	3,5	5	12	20	
Max. slide gate stations	n.	6					
Max. screw stations	n.	2					
Max. noise level	dB(A)	<70					
Total installed power*	kW	0,22**/0,28***	0,25**/0,31***	0,25**/0,31***	0,75** / 0,9***	0,75** / 0,9***	
Dimensions	L1	mm	1770	1800	1800	2070	2070
	L	mm	1030	1050	1060	1315	1440
	W	mm	960	970	970	1185	1185
	H	mm	1250	1370	1570	1840	1840
	A	mm	225	285	285	600	600
	B	mm	299	329	329	600	600
	C	mm	88	88	88	135	135
Weight	kg	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/dm<sup>3</sup>

\*\* : 50Hz

\*\*\* : 60Hz

**EUROPE****PIOVAN S.p.A. (\*)**

Tel. +39 041 57.99.111  
 Fax +39 041 48.74.37  
 sales@piovan.com

**PIOVAN CENTRAL EUROPE GmbH**

Tel. +43 2236.312.110.0  
 Fax +43 2236.312.110.50  
 office@piovan.at

**PIOVAN FRANCE**

Tel. +33 4 747.67700  
 Fax +33 4 747.62237  
 pf.commercial@piovan-france.fr

**PIOVAN GmbH**

Tel. +49 89 329.457.0  
 Fax +49 89 329.457.11  
 info@piovan.de

**PIOVAN GmbH ODDZIAŁ W POLSCE**

Tel. +48 71 35.00.617  
 Fax +48 71 35.00.337  
 info@piovan.pl

**PIOVAN UK Ltd.**

Tel. +44 0 1527 879.419  
 Fax +44 0 1527 879.504  
 piovanuk@piovan.com

**AMERICAS****PIOVAN CANADA Ltd.**

Tel. +1 905 629.88.22  
 Fax +1 905 629.88.27  
 info@piovancanada.com

**PIOVAN MEXICO S.A. de C.V.**

Tel. +52 55 1997 8562  
 Fax +52 55 1997 8563  
 piovan@piovan.com.mx

**PIOVAN DO BRASIL  
INDUSTRIA E COMERCIO Ltda (\*)**

Tel. +55 11 3693.9500  
 Fax +55 11 3693.9515  
 piovan@piovan.com.br

**ASIA****PIOVAN SHANGHAI**

Tel. +86 21 6140.5523  
 Fax +86 21 6140.5524  
 piovanzh@piovan.cn

**PIOVAN PLASTICS MACHINERY (Suzhou) Co Ltd. (\*)**

Tel. +86 512 6732.5312  
 Fax +86 512 6732.5311  
 piovanzh@piovan.cn

**PIOVAN ASIA BEIJING OFFICE**

Tel. +86 10 8586.1393  
 Fax +86 10 8586.1393  
 piovanzh@piovan.cn

**PIOVAN HONG KONG Ltd.**

Tel. +852 2368.8728  
 Fax +852 2368.8728  
 piovanzh@piovan.cn

**PIOVAN ASIA Pte Ltd**

Tel. +65 6 8745.930  
 Fax +65 6 8745.901  
 sales@piovanasia.com.sg

**PIOVAN THAILAND**

Tel. +662 643 97.53/55  
 Fax +662 643 97.57  
 sales@piovanasia.com.sg

**PIOVAN INDIA Pvt Ltd.**

Tel. +91 22 2856.0450  
 Fax +91 22 2856.0450  
 sales@piovanindia.com

(\*) manufacturing site