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Special

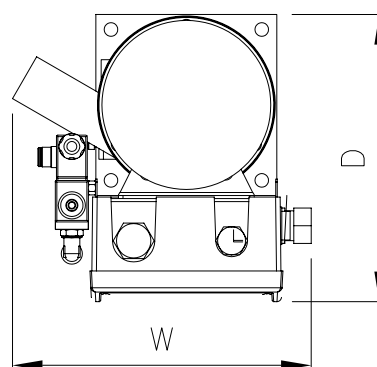
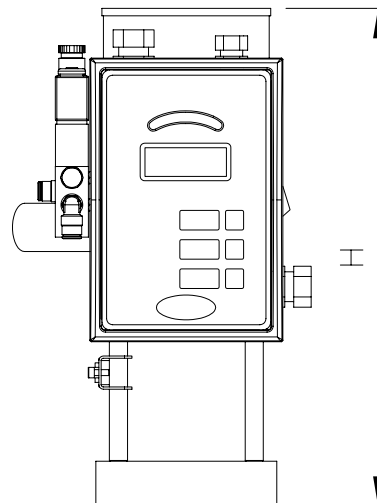
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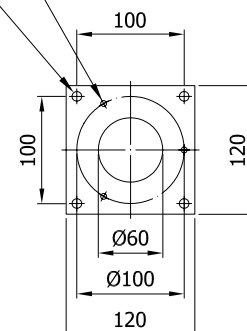
The compressed-air feeder of the VLV series is designed for small throughputs up to 20-30 kg/h. It is completely made of anodized aluminium and its Pyrex body is equipped with an adjustable level sensor.

The VLV feeder comes complete with a high-efficiency suction probe. It can be installed directly on a machine or on a small storage hopper.



N.3 HOLES Ø5.5

N.4 HOLES Ø9



Technical data

	Unit of measure	VLV	VLV-PF
Capacity	dm ³	1	1
Suction capacity	kg/h	30	30
Material inlet	mm	32	32
Voltage/Frequency	V/Hz	230/50-60	230/50-60
Dimensions WxDxH	mm	190x294x330	246x202x300
Weight	kg	5	5

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The single-phase hopper loaders of the VLM series are designed to automatically convey plastic granules to processing machines, drying hoppers and dosing units.

Single-phase hopper loaders are equipped with a built-in suction unit.

Suction capacity of up to 600 kg/h over distances of up to 15 m.

Its control unit with a microprocessor board and keypad allows the operator to easily program and control the machine.

TECHNICAL CHARACTERISTICS

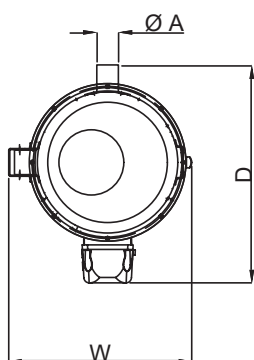
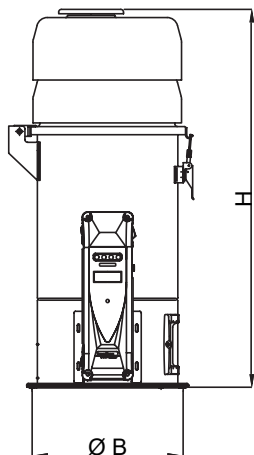
- 900W two-stage blower (1800W brushless blower for VLM25).
- Automatic filter cleaning with compressed air.
- Inspection door with a stainless-steel filter for venting.
- Control unit with keypad and LED digital display to view operating status and alarms.
- Built-in double cover that divides the engine compartment from the blower ensuring better operation.
- Aluminium fixing ring for a 360° installation.
- Suction probe and pipe are included.

ACCESSORIES:

- Proportioning valve PVN with settable percentages.
- Sound alarm.
- Pyrex mini-hoppers for immediate installation on a machine.

ADDED VALUE:

- EASY TO USE.
- LOW MAINTENANCE.
- SAFE AND RELIABLE.
- FAST INSTALLATION.



Two-stage blower



Easy to service

Technical data

	Unit of measure	VLM2	VLM4	VLM5	VLM10
Suction capacity	kg/h	40	60	120	180
Maximum distance	m	3	3	10	10
Loader volume	l	2	4	5	10
Vacuum	KPa	18	18	21	21
Noise level	dB(A)	<80	<80	<80	<80
Motor power	kW	0.85	0.85	0.9	0.9
Voltage/Frequency	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60
Material inlet A	mm	40	40	40	40
Centre-to-centre distance B	mm	210	210	280	280
Dimensions WxDxH	mm	270x362x460	270x363x540	340x410x605	340x410x705
Weight	kg	8	9	16	17



The Brushless hopper loaders of the VLB series are designed to automatically convey plastic granules to processing machines, drying hoppers and dosing units.

Brushless hopper loaders are equipped with a built-in high-efficiency suction unit.

Suction capacity of up to 1000 kg/h over distances of up to 25 m.

Its control unit with a microprocessor board and keypad allows the operator to easily program and control the machine.

TECHNICAL CHARACTERISTICS

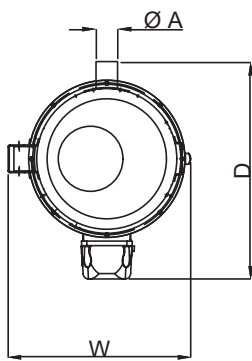
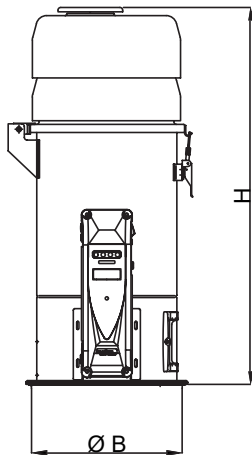
- 1100W two-stage brushless blower (for VLB5 and VLB10) and 1800W (for VLB25).
- Automatic filter cleaning with compressed air.
- Inspection door with a stainless-steel filter for venting.
- Control unit with keypad and LED digital display to view operating status and alarms.
- Built-in double cover that divides the engine compartment from the blower ensuring better operation.
- Aluminium fixing ring for a 360° installation.
- Suction probe and pipe are included.

ACCESSORIES:

- Proportioning valve PVN with settable percentages.
- Sound alarm.
- Pyrex mini-hoppers for immediate installation on a machine.
- It can be integrated with MWS weighing system.

ADDED VALUE:

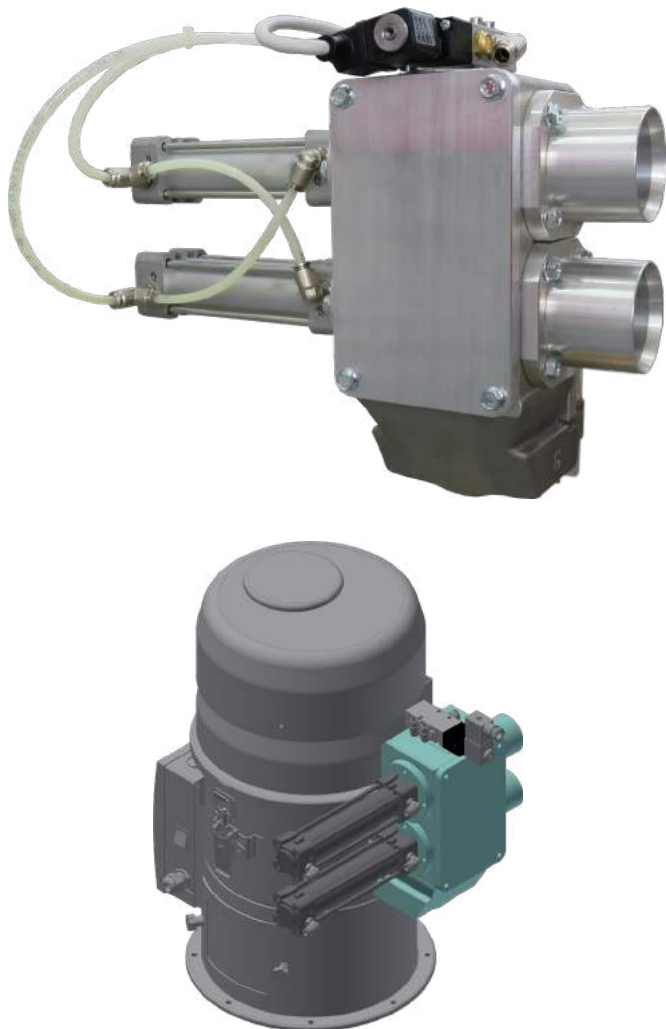
- EASY TO USE.
- LONG-LIFE BLOWER.
- SAFE AND RELIABLE.
- FAST INSTALLATION.



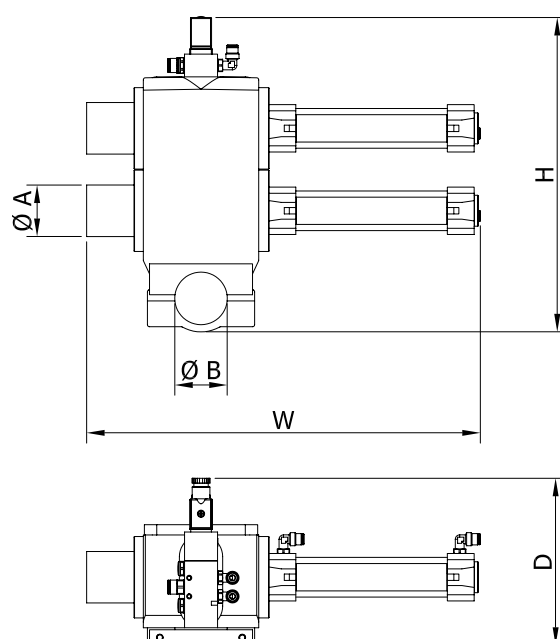
Easy to service

Technical data

	Unit of measure	VLB5	VLB10	VLB25
Suction capacity	kg/h	300	500	1000
Maximum distance	m	25	25	25
Loader volume	l	5	10	25
Vacuum	KPa	23	23	23
Noise level	dB(A)	<80	<80	<80
Motor power	kW	1.1	1.1	1.8
Voltage/Frequency	V/Hz	230/50-60	230/50-60	230/50-60
Material inlet A	mm	40	40	50/60
Centre-to-centre distance B	mm	280	280	280
Dimensions WxDxH	mm	340x410x605	340x410x705	405x445x910
Weight	kg	16	17	30



Proportional valves PVN allow loading two materials in different percentages. It is possible to change the percentages of the two components through a control unit so as to obtain a smooth mixture.



Technical data

	Unit of measure	PVN40	PVN50	PVN60	PVN70
Ø Inlet pipe A	mm	40	50	60	70
Ø Inlet pipe B	mm	40	50	60	70
Compressed-air pressure	bar	6-8	6-8	6-8	6-8
Compressed-air consumption	NI/ciclo*	0.5	0.5	0.5	0.5
Voltage/Frequency	V/Hz	230/50-60 24VDC	230/50-60 24VDC	230/50-60 24VDC	230/50-60 24VDC
Absorbed power	W	5	5	5	5
Dimensions WxDxH	mm	380x162x306	380x162x306	380x162x306	380x162x306

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The suction units of the PD series with power from 1.1 to 15 kW are used in pneumatic conveying systems for throughputs of up to 3000 kg/h over distances of up to 150m.



TECHNICAL CHARACTERISTICS

- 1- to 3-stage side-channel blowers.
- Self-cleaning filters with polyester cartridges and dust container.
- RS485 ModBus interface.

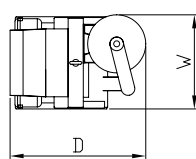
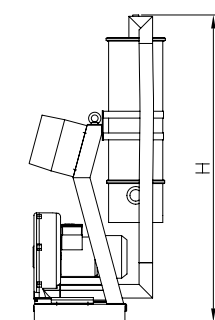
ACCESSORIES:

- Pressure gauge for clogged filter alarm.

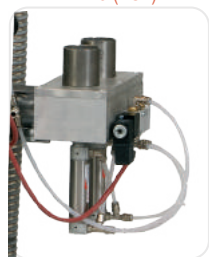
ADDED VALUE:

- VERSATILE

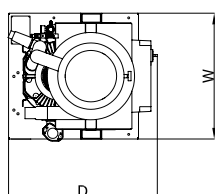
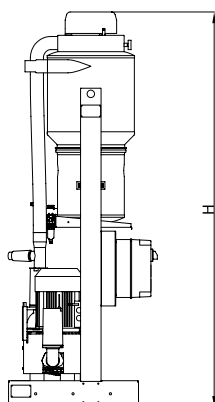
Suction units are available with two loading stations.



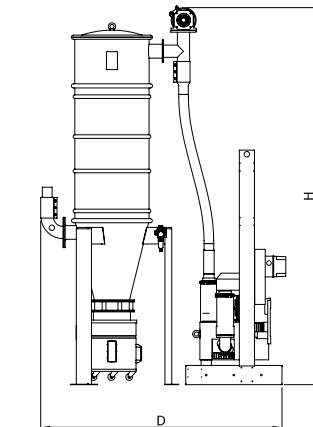
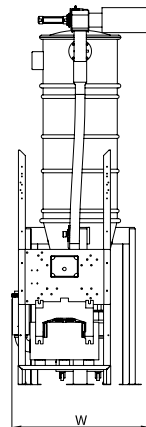
PD1-3 (FC1)



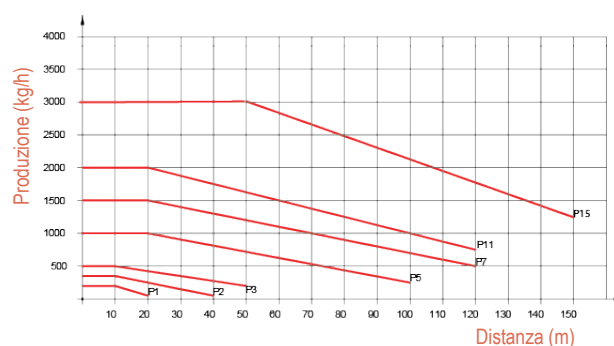
Valvola Duo System



PD3-PD11 (FC3)



PD7-15 (FC8)



Technical data

	Unit of measure	PD1		PD2		PD3		PD5	PD7	PD11		PD15	
Suction capacity	kg/h	200		300		500		1000	1500	2000		3000	
Power 400V/50Hz	kW	1.1		1.5		3		5.5	7.5	11		15	
Power 460V/60Hz	kW	1.3		1.7		3.4		6.3	9	12.6		17.3	
Vacuum	kPa	16		20		26		43	43	43		60	
Noise level	dB(A)	<80		<80		<80		<80	<80	<80		<80	
Vacuum line	Ø mm	40		40		50		50/60	60/70	60/70		70/89	
Filter (optional) Filtering surface	model m²	FC1 2.9	FZ1 1.8	FC1 2.9	FZ1 1.8	FC1 2.9	FC3 7.5	FC3 7.5	FC3 7.5	FC8 13	FC3 7.5	FC8 13	FC8 13
Type of filter cleaning		self-cleaning											
Compressed-air pressure	bar	6-8		6-8		6-8		6-8	6-8	6-8		6-8	
Compressed-air consumption													
- with filter cleaning	NI/cycle*	1.2	-	1.2	-	1.2	2.14	2.14	2.14	-	2.14	-	-
	Nm³/h	-	-	-	-	-	-	-	-	1	-	1	1
- without filter cleaning	NI/cycle*	-	-	-	-	-	0.34	0.34	0.34	-	0.34	-	-
Dimensions WxDxH	Filter FC1	381x540x1137		381x540x1137		381x540x1137		-	-	-		-	
	Filter FZ1	417x473x770		417x473x770		-		-	-	-		-	
	Filter FC3	-		-		673x700x2021		685x796x2114	717x783x2112	717x857x2112		-	
	Filter FC8	-		-		-		-	1006x1760x2738	1006x1781x2738		1061x2404x2738	
Weight	kg	30		40		60	140	190	210	230		300	

* NI/cycle = compressed-air consumption to clean the filter at the end of each suction.

The control software allows the operator to set the cleaning frequency of the filter, therefore the overall hourly compressed-air consumption must be calculated accordingly.

Plastic Systems S.r.l. assumes no responsibility for any errors or inaccuracies in the contents of this catalogue and reserves the right to make changes to the products without prior notice.

The material receivers of the LDM series completely made of stainless steel and the material receivers of LDX series with a Pyrex-glass body were designed to be used with three-phase hopper loaders of the PD series.

There are 8 models from 2 dm³ to 200 dm³.



TECHNICAL CHARACTERISTICS

- Stainless steel structure.
- Hinged cover.
- High-vacuum operation.
- Automatic filter cleaning.
- Flap-type outlet valve and wear-resistant gasket.
- Air vent with door and integrated metal filter.

ACCESSORIES:

- Pneumatic discharge.
- Proportioning valve.
- Level sensor.

ADDED VALUE:

- Easy to use.
- Easy cleaning and maintenance.
- Safe and reliable.
- Fast installation with a 360° orientation.
- Status indicator.

Technical data

		Unit of measure	LDM2	LDM4	LDX4*	LDM5	LDX8*	LDM10	LDM25	LDX25*	LDM50	LDM100
Capacity		dm ³	2	4	4	5	8	10	25	25	50	100
Centre-to-centre distance B		mm	210	210	210	280	210	280	280	280	280	280
Material inlet diameter A		mm	40/50	40/50	40/50	40/50	40/50	40/50	50/60	60	60/70	60/70/90
Dimensions	W	mm	270	270	270	340	270	340	415	355	415	570
	D		360	360	345	410	345	410	490	440	490	550
	H		545	625	685	650	810	753	915	965	1085	1220
Weight		kg	7	8	8	10	11	12	15	15	17	30

* Version with glass cylinder

The Matrix microprocessor control makes it possible to build centralised granule pneumatic conveyance systems.

The system is flexible and expandable. It is possible to use a maximum of 10 vacuum pumps and 70 receivers at any time, with a single control.

The automatic operation makes it possible to monitor the material storage and distribution, that is to say, the material-processing machine coupling, entirely from a single station. All this can be done easily and without waste of polymers.

Additionally, the “MMS” system makes it possible to choose the conveyance speed according to the type of material to be transported and the distance.



TECHNICAL CHARACTERISTICS

- Microprocessor/PLC control for 10 vacuum pumps and 70 receivers.
- Portable keyboard with touch screen display.
- Integrated management of:
 - Self-cleaning filters.
 - Proportional valves.
 - Duct cleaning valve.
- Manual and automatic manifolds.
- The EASY MATRIX version with the control panel integrated in the extraction unit, to control a maximum of 10 containers, is also available.
- All the system components are connected by a serial line.
- Interface 4.0.

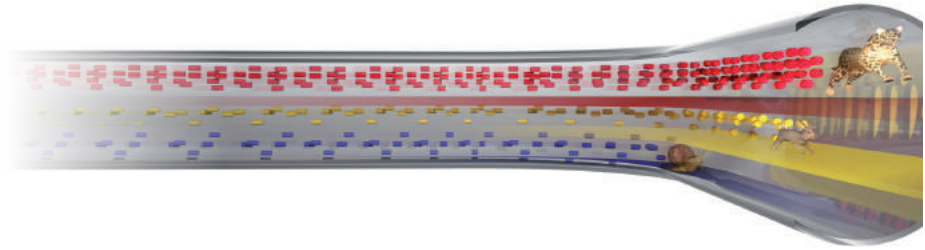
ACCESSORIES:

- Colour touch screen.
- ABC automatic reserve blower exchange.
- “MMS” material speed management.

ADDED VALUE:

- Safe conveyance with MMS function, with no polymer degradation or dust generation.
- Total flexibility, open to new storage configurations, production departments, expansions, through a quick configuration of the new system logic controller.
- Simple operator interface from control panel, PC, tablet and receiver.
- Low energy consumption, thanks to efficient vacuum pumps.

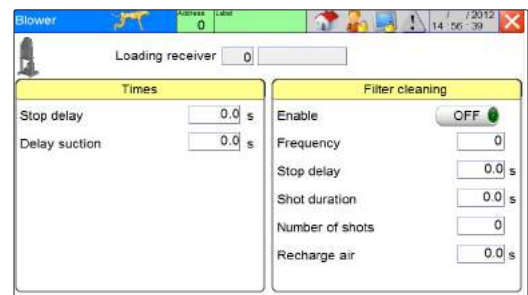
"MMS" material speed management



MATRIX system control unit with handheld device and touch screen



EASY MATRIX system



Touch screen control pages



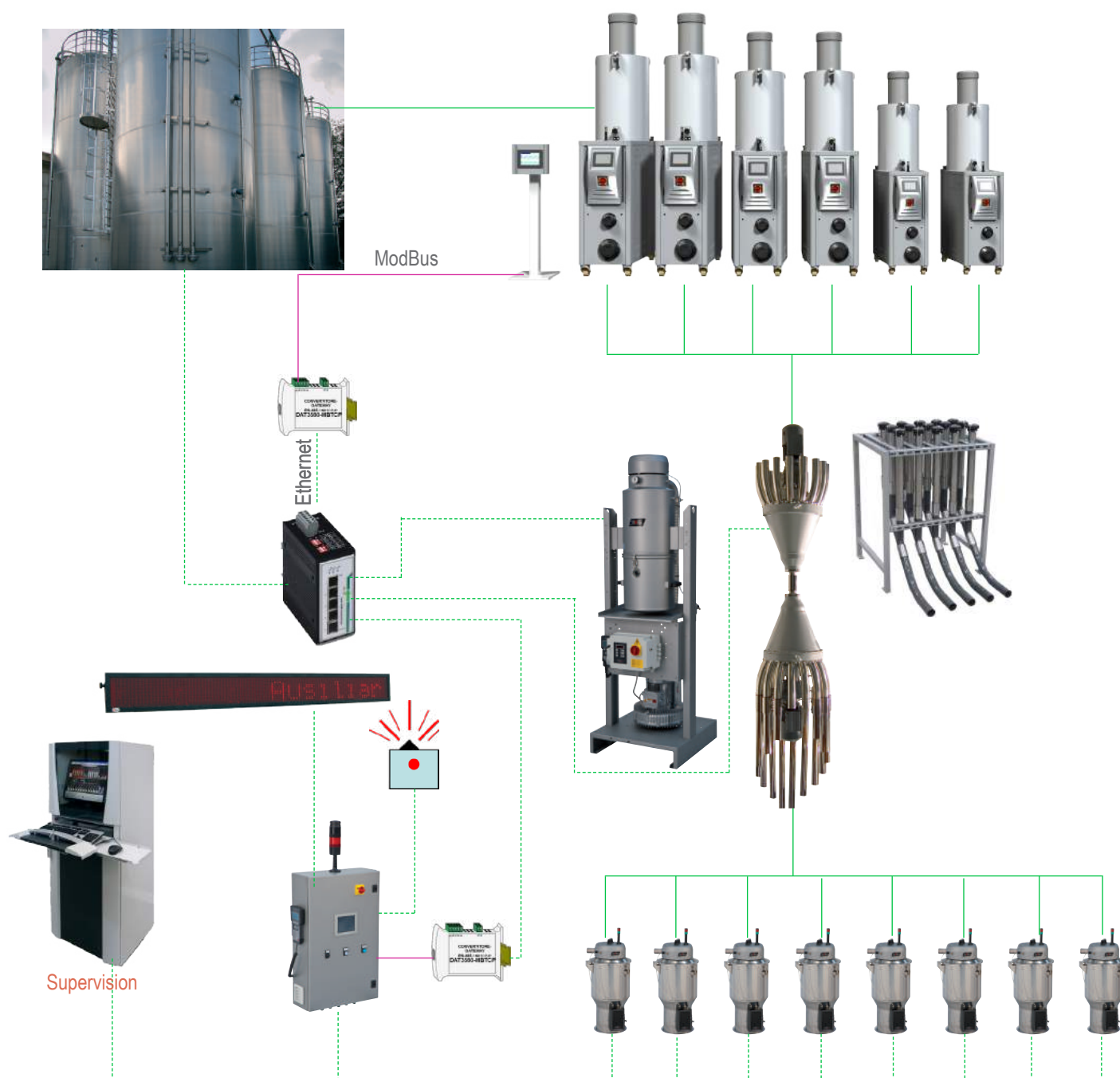
Example of a Matrix system

With the Supervision software developed by Plastic Systems, it is possible to control all the machines and components of a system:

- Storage silos.
- Centralized / single dehumidification units.
- Manual / automatic manifolds.
- Centralized feeding system.
- Centralized / single dosing units.

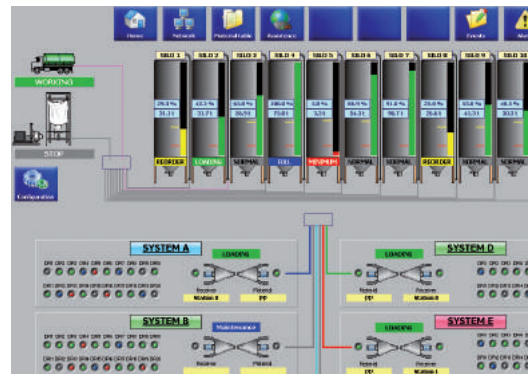
ADDED VALUE:

- Full control of the process: from silos to processing machines.
- Traceability of supplied materials.
- Optimization of operating parameters according to throughput resulting in energy saving.
- Flexible and easy-to-use operator interface.
- The supervisor communicates and interfaces with bar-code readers, tablets, laptops.





Main screen



Silo loading



Silo



Dryer



Automatic manifold



Server



Suction unit



Container



The suction units of the PM series with powers from 3 to 30 kW are used in pneumatic conveying systems for throughputs of up to 4500 kg/h over distances of up to 200m.

They are installed in centralized feeding Matrix systems.

TECHNICAL CHARACTERISTICS

- 1- to 3-stage side-channel blowers.
- Cam-type pumps.
- Lobe-type pumps.
- Self-cleaning filters with polyester cartridges and dust container.
- RS485 ModBus interface.

ACCESSORIES:

- Pressure gauge for clogged filter alarm.
- SPEED CONTROL function.

ADDED VALUE:

- VERSATILE
The suction units can be integrated in a centralized MATRIX system or Siemens PLC.
- EFFICIENT
The SPEED CONTROL function with inverter and pressure transducer automatically adjusts the conveyance speed preventing the deterioration of the polymer and resulting in energy efficiency.



One side-channel pump

Power 3kW
Distance 0-60m



Two side-channel pump

Power 5-20kW
Distance 10-100m



Three side-channel pump

Power 5kW
Distance 10-150m



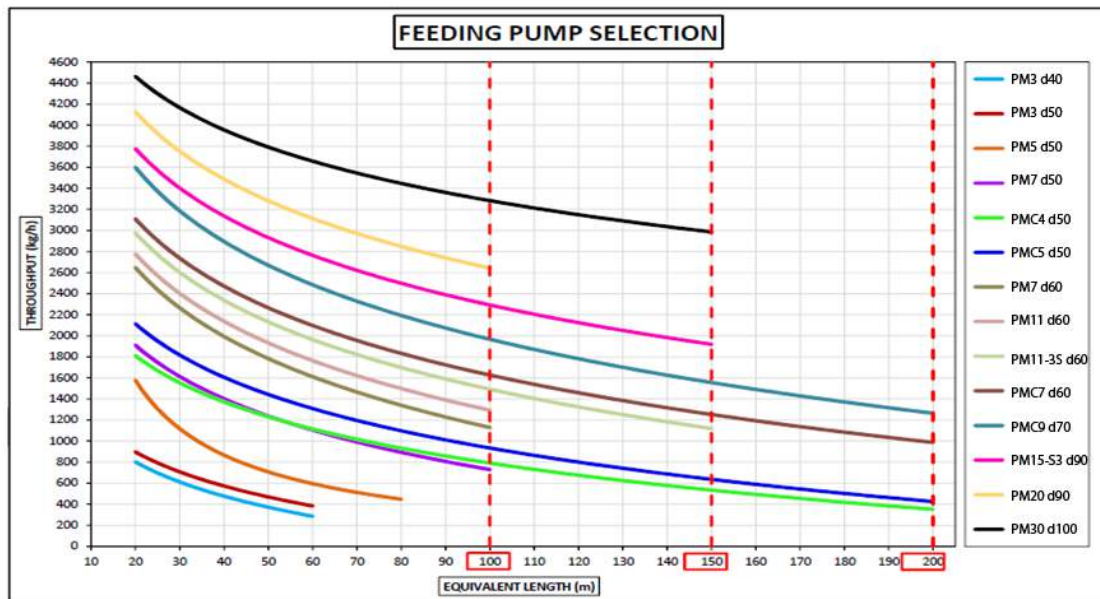
Sound-proofed three-lobe pump

Power 30kW
Distance 10-150m



Cam pump

Power 4-9kW
Distance 10-200m



Cylindrical granule.

Bulk density from 500 up to 850 kg/m³.

	Unit of measure	PM3	PMC4	PM5	PMC5	PM7	PMC7	PMC11	PM11	PM15
Maximum suction capacity*	kg/h	400	500	600	1000	1200	1800	2200	1500	3000
Power	kW	3	4	5.5	5.5	7.5	7.5	11	11	15
Maximum vacuum	kPa	26	60	43	60	40	60	60	43	60
Noise level	dB(A)	70	<80							
Vacuum line Ø	mm	40/50	40/50	40/50	40/50	60/70	60/70	70/89	60/70	70/89
Filter Filtering surface	modello m ²	FC1 2.9	FC3 7.5	FC3 7.5	FC3 7.5	FC3 7.5	FC8 13	FC3 7.5	FC3 7.5	FC8 13
Type of filter cleaning		autopulente								
Compressed-air pressure	bar	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8	6-8
Compressed-air consumption - with filter cleaning	NI/ciclo** Nm ³ /h	1.2 -	2.14 -	2.14 -	2.14 -	2.14 -	- 1	2.14 -	2.14 -	2.14 1
- without filter cleaning	NI/ciclo**	- 0.34	- 0.34	- 0.34	- 0.34	- 0.34	- 0.34	- 0.34	- 0.34	- -
Voltage/Frequency	V/Hz	400/50-60								
Weight	kg	60	140	220	190	250	210	280	300	230

* The values on the table refer to an average horizontal distance of about 80m.

The times for pipe cleaning and the rotation time of the automatic manifold have not been considered.

** NI/cycle = compressed-air consumption to clean the filter at the end of each suction.

The control software allows the operator to set the cleaning frequency of the filter, therefore the overall hourly compressed-air consumption must be calculated accordingly.

	Unit of measure	PM3	PM5	PM7	PM11	PM15
Dimensions WxDxH	FC1	381x540x1137	-	-	-	-
	FC3	673x700x2021	685x796x2114	717x783x2112	717x857x2112	-
	FC8	-	-	1006x1760x2738	1006x1781x2738	1061x2404x2738

	Unit of measure	PMC4	PMC5	PMC7	PMC11
Dimensions WxDxH	FC3	673x1600x2112	673x1500x2112	700x1567x2112	700x1567x2112

The material receivers of the TMM series, completely made of stainless steel, were designed to be used in centralized feeding systems MATRIX 4.0.

There are 8 models from 2 dm³ to 100dm³.



The material receivers of the TMX series, with a Pyrex-glass body, were designed to be used in centralized feeding systems MATRIX 4.0.

There are 3 models from 4 dm³ to 25dm³.



TECHNICAL CHARACTERISTICS

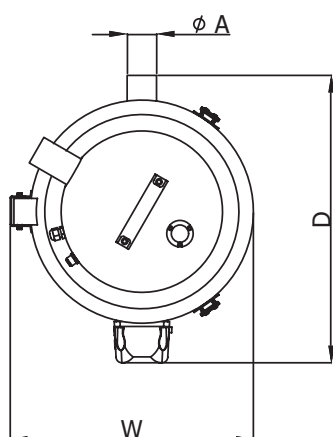
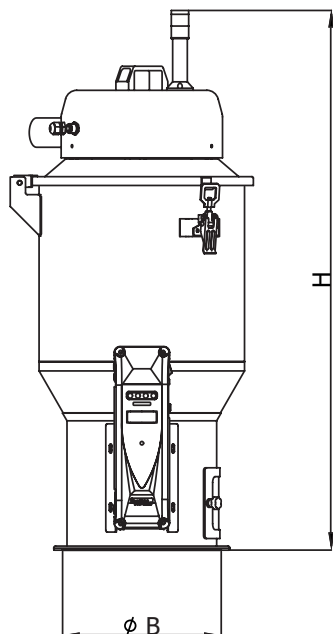
- Stainless steel structure.
- Hinged cover.
- High-vacuum operation.
- Automatic filter cleaning.
- Flap-type outlet valve and wear-resistant gasket.
- Air vent with door and integrated metal filter.
- ETHERNET connection

ACCESSORIES:

- Pneumatic discharge.
- Proportioning valve.
- It can be integrated with MWS weighing system.

ADDED VALUE:

- Easy to use.
- Easy cleaning and maintenance.
- Safe and reliable.
- Fast installation with a 360° orientation.
- Status indicator.



TMM containers



TMX containers

Technical data

		Unit of measure	TMM2	TMM4	TMX4	TMM5	TMX8	TMM10	TMM25	TMX25	TMM50	TMM100
Capacity		dm ³	2	4	4	5	8	10	25	25	50	100
Centre-to-centre distance B		mm	210	210	210	280	210	280	280	280	280	280
Material inlet diameter A		mm	40/50	40/50	40/50	40/50	40/50	40/50	50/60	60	60/70	60/70/90
Dimensions	W	mm	270	270	270	340	270	340	415	355	415	570
	D		360	360	345	410	345	410	490	440	490	550
	H		545	625	685	650	810	753	915	965	1085	1220
Weight		kg	7	8	8	10	11	12	15	15	17	30



The weighing rings are designed to control the quantity of material entering the material receiver, that is discharged into the hopper and then into the press.

The weighing rings interface with the material receivers and are managed directly by the control panel of the centralized feeding system.



MATRIX							
	Receiver	Material	Prod. Target Kg/h	Start time	Totalizer		Efficiency
					Kg	Kg/h	%
☒	1 IMM 1	ABS	50.0	08 / 10 / 2014 14 : 09	47214	47.1	94.2
☐	2 IMM 2	PP	0.0	00 / 00 / 0000 00 : 00	0	0.0	0
☐	3 IMM 3	PA	0.0	00 / 00 / 0000 00 : 00	0	0.0	0
☐	4 IMM 4	PEEK	0.0	00 / 00 / 0000 00 : 00	0	0.0	0
☐	4 IMM 5	PET	0.0	00 / 00 / 0000 00 : 00	0	0.0	0
☐	5 IMM 6	POM	0.0	00 / 00 / 0000 00 : 00	0	0.0	0
☐							
☐							
☐							
☐							

Reset Stop

	Unità di misura	MWS210	MWS210
Hole diameter	Ø	210	280
Outer diameter	Ø	233	303
Internal diameter	Ø	156	216
Height	mm	65	65

Material consumption					
	Material	Start time	Stop time	Totalizer	
				Kg	Kg/h
☒	ABS	10 / 10 / 2014 10 : 49	00 / 00 / 0000 00 : 00	17214	43.1
☐	PP	09 / 10 / 2014 09 : 20	00 / 00 / 0000 00 : 00	0	0.0
☐	PA	00 / 00 / 0000 00 : 00	00 / 00 / 0000 00 : 00	0	0.0
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Reset Stop

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EASY
WAY 4.0

The automatic manifolds of the AMMP series are the perfect solution for the distribution of plastic materials inside factories.

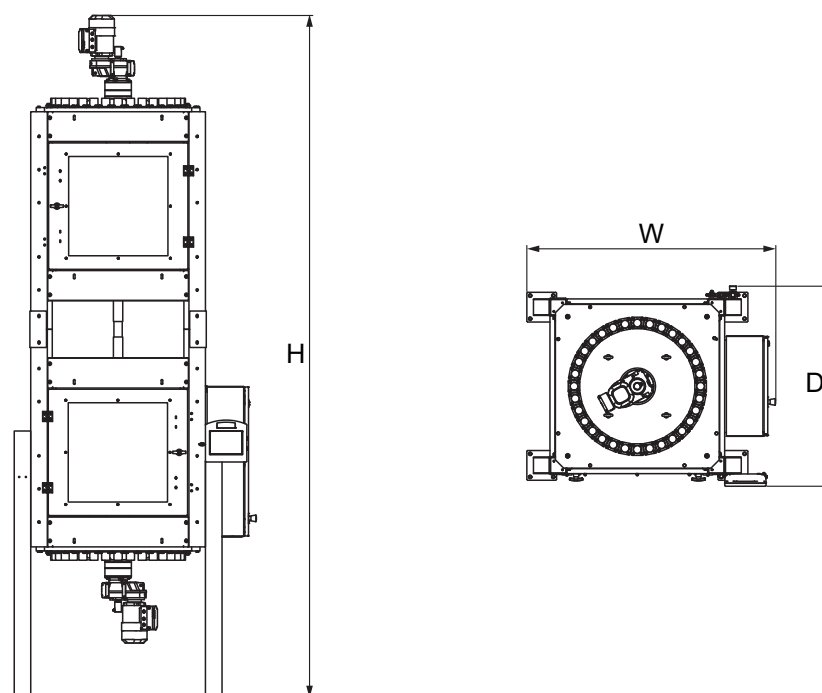
There are four models with pipes:
50 - 60 - 70 - 88.9 - 101.6 - 114,3 mm in diameter.

TECHNICAL SPECIFICATIONS:

- Siemens PLC control unit and touch screen interface. The control unit manages up to 4 modules.
- Gearmotor with a built-in self-breaking system.
- Internal body made of wear-resistant stainless steel.

ADDED VALUE:

- **RELIABLE**
The precision of the mechanical components, its PLC control unit and position sensors ensure absolute reliability.
- **SAFETY**
No risks for the operator. Moving parts are inside the machine.



Technical data

	Unit of measure						
Diametro connessioni	Ø	Ø50	Ø60	Ø70	Ø88,9	Ø101,6	Ø114,3
Connections AMMP1	N°	32	28	24	20	18	16
Connections AMMP2	N°	50	44	38	30	28	26
Voltage/Frequency	V/Hz	400/50/60					
Total power	kW	1	1	1	1	1	1
Dimensions WxDxH	mm	1500x1200x4100 - versione AMMP1			1500x1200x4540 - versione AMMP1		
		1964x1769x4900 - versione AMMP2			1964x1769x5350 - versione AMMP2		
Weight	kg	830 - versione AMMP1					
		1780 - versione AMMP2					



The powder feeders of the VLP series are the best solution for the pneumatic conveyance of plastic materials in powder form.

They can also be used for conveying food, pharmaceuticals and chemical products ensuring high hygienic standards. Ideal for free-flowing powders with particle sizes from 10 to 200 μm and bulk density from 0.35 to 1.8 kg/dm^3 .

These feeders can also be used for powders with smaller particle sizes by using special sintered filters.

Also available a version for Matrix centralized systems and a version with an external PD vacuum pump.

TECHNICAL CHARACTERISTICS

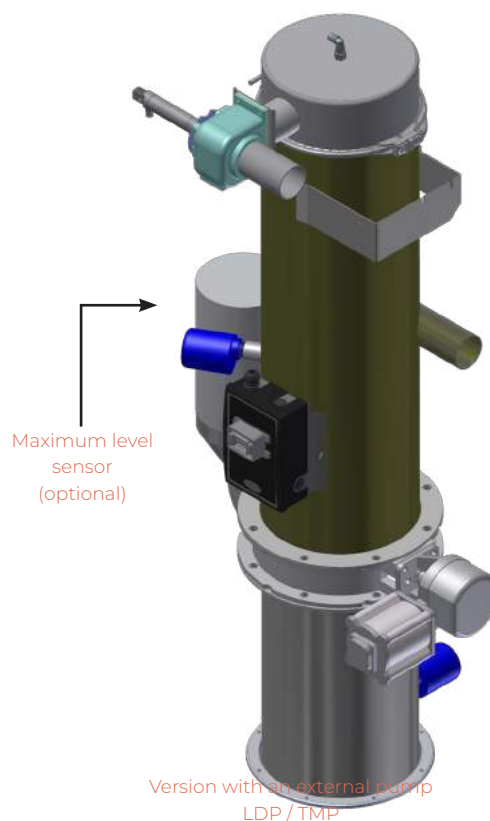
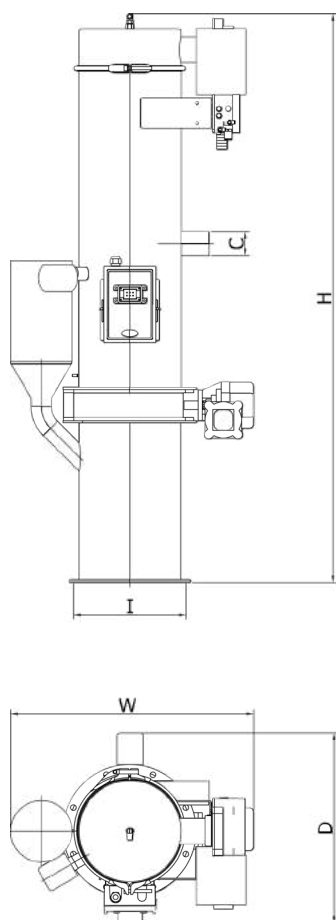
- High-efficiency compressed-air vacuum pump.
- Butterfly outlet valve.
- ASTM 304 stainless steel container.
- Antistatic polyester self-cleaning filter.
- Modular and compact structure.
- Control unit for monitoring operation.
- Compressed-air regulating kit.
- Suction probe and pipe.
- Paddle level sensor.

ACCESSORIES:

- Sintered filter for particle sizes 1-10 μm .

ADDED VALUE:

- EASY TO INSTALL
Thanks to its built-in pump, this feeder does not require vacuum pipes.
- LOW ENERGY CONSUMPTION
A special Venturi modular system ensures high airflow rates and high vacuums using a low quantity of compressed air.
- FAST CLEANING
No need of tools: a fast clamping system keeps the parts together.
- LOW NOISE



Technical data

	Unit of measure	VLPM10/VLPD10	VLPM20/VLPD20
Suction capacity	Kg/h	300*	600*
Power	kW	1,5-3	3-5,5
Pump capacity (at 200 bar)	l	10	20
Compressed air pressure	bar	4-6	4-6
Compressed air consumption	kW	0,5	0,5
Noisiness	dB(A)	<80	<80
Material entry	mm	50	60
Voltage/frequency	V/Hz	400/50-60	400/50-60
Dimensions WxDxH	mm	590x470x1180	590x470x1400
Weight	kg	33	38

* Approximate value that depends on the type of powder and particle size

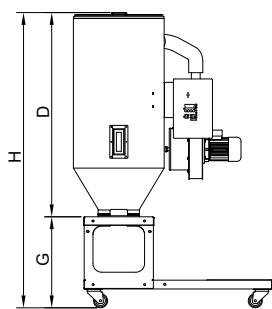


The hot-air dryers of the HAD series have been designed to dry non-hygroscopic plastic granules. Non-hygroscopic plastic materials are polymers which trap the humidity on the surface of granules in very small percentages. However, the processing of plastic materials in the presence of humidity may seriously affect the quality of the process and, as a consequence, the finished product.

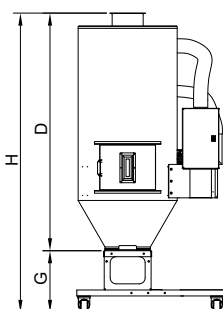
Hot-air dryers are divided into two series. The first series includes the range HAD30 - HAD200 with airflow rates from 70 to 200 m³/h that can directly be installed on the plasticization throat of the machine. The second series includes the range HAD300 - HAD2500 with airflow rates from 400 to 1350 m³/h that are installed on a support structure.

TECHNICAL CHARACTERISTICS

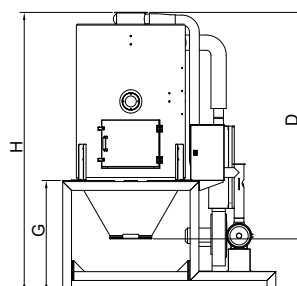
- Glass-wool-insulated stainless-steel hoppers with central cone.
- Electronic control of the heating phase of the process air with PID algorithm. The control board is equipped with a microprocessor. The machine features a control keypad and display for entering parameters and viewing alarms.
- Daily/Weekly timer.
- Hinged covers where single-phase/three-phase hopper loaders can be installed.
- Insulated inspection door starting from model HAD150.



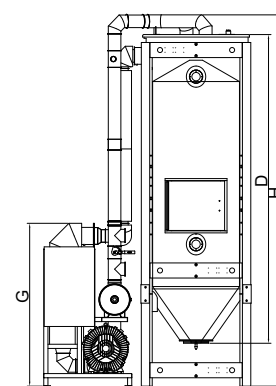
HAD30-200



HAD300-400



HAD600-1200



HAD1500-3000

	Unit of measure	HAD 30	HAD 50	HAD 75	HAD 100	HAD 150	HAD 200	HAD 300	HAD 400	HAD 600	HAD 800	HAD 1200	HAD 1500	HAD 2000	HAD 2500	HAD 3000
Max process airflow	m ³ /h	70	70	100	100	200	200	200	400	600	600	600	750	1000	1350	1500
Process temperature	°C	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Heating power	kW	1,6	1,6	2,4	2,4	3,6	3,6	3,6	9,6	12	12	12	27	27	40,5	40,5
Fan/blower power	kW	0,08	0,08	0,18	0,18	0,37	0,37	0,37	0,75	1,1	1,1	1,1	7,5	7,5	11	11
Total power	kW	1,68	1,68	2,58	2,58	3,97	3,97	3,97	10,35	13,1	13,1	13,1	34,5	34,5	51,5	51,5
Noise level	dB(A)	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
Hopper capacity	dm ³	30	50	75	100	150	200	300	400	600	800	1200	1500	2000	2500	3000
Voltage/Frequency	V/Hz	230/50-60			400/50-60											
Weight	kg	40	55	60	65	75	85	120	350	550	600	650	800	900	1000	1100

	Unit of measure	HAD 30	HAD 50	HAD 75	HAD 100	HAD 150	HAD 200	HAD 300	HAD 400	HAD 600	HAD 800	HAD 1200	HAD 1500	HAD 2000	HAD 2500	HAD 3000
A	mm	437	437	515	515	597	597	832	832	992	992	1090	1126	1306	1316	1570
B	mm	779	779	952	952	1021	1021	1178	1178	1608	1608	1865	1050	1050	1050	1050
C	mm	555	555	689	689	731	731	1078	1078	1240	1240	1240	1393	1393	1393	1570
D	mm	740	960	969	1160	1319	1609	1750	1992	2062	2463	3025	3026	3187	3683	3935
E	mm	1193	1193	1127	1127	1180	1180	1235	1235	1940	1940	1940	2211	2436	2475	2702
F	mm	826	826	826	826	826	826	888	888	-	-	-	-	-	-	-
G	mm	517	517	517	517	517	517	517	517	1020	1020	1020	1942	1942	1942	1942
H	mm	1257	1477	1486	1677	1836	2126	2267	2509	2551	2951	3529	3726	3933	4430	4727



The small dryers of the DAC series are the perfect solution for drying hygroscopic polymers in small productions.

The series includes 7 models of dryers with hoppers from 2 dm³ to 100 dm³ for throughputs up to 30 kg/h.

TECHNICAL CHARACTERISTICS

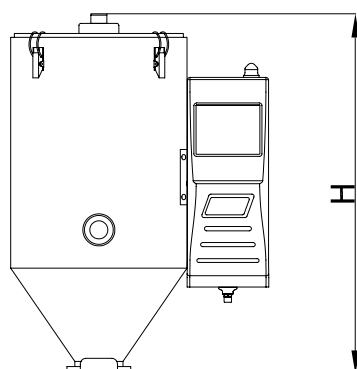
- Microprocessor control unit with keypad and LCD display.
- Built-in molecular-sieve unit.
- Process air managed with a modulating valve.
- ETHERNET connection.

ACCESSORIES:

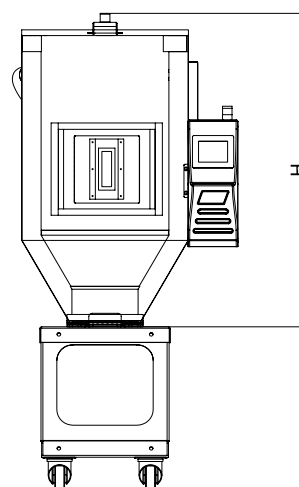
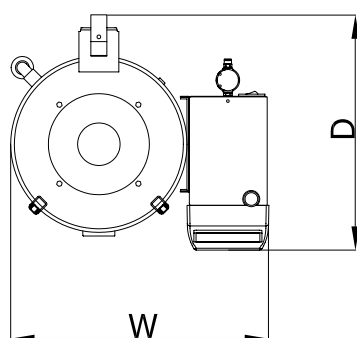
- Venturi feeder.
- Base made of Pyrex or steel with side outlet (DAC6-50).
- 4" colour touch screen.

ADDED VALUE:

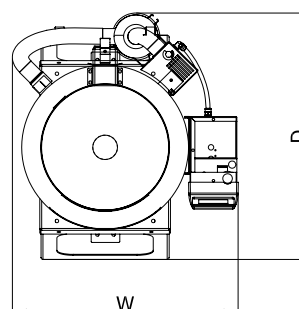
- EASY TO INSTALL
A compact unit that can be quickly installed on small-size presses and extruders.
- SIMPLE OPERATOR INTERFACE
Only two parameters to set: type of material and hourly consumption.
- ENERGY EFFICIENCY
Depending on the throughput, the machine adjusts the process airflow and its antistress function prevents the degradation of the polymer due to overdrying.
- AIR FLOW CONTROL
The machine is equipped with modular valves for regulating the air flow according to hourly production.



DAC2N-50N



TURBO DAC75-100



Technical data

	Unit of measure	DAC2 NV	DAC6N	DAC15N	DAC30N	DAC50N	Turbo-DAC75	Turbo-DAC100
Hopper capacity	dm ³	1-2	6	15	30	50	75	100
Airflow rate	Nm ³ /h	1-3	2-5	4-12	6-16	6-20	15-40	15-40
Dew point	°C	-25/-50	-25/-50	-25/-50	-25/-50	-25/-50	-15/-30	-15/-30
Process temperature	°C	50-140	50-140	50-140	50-140	50-140	60-140	60-140
Heating power	kW	0.65	0.65	0.65	0.95	0.95	1	1
Noise level	dB(A)	<80	<80	<80	<80	<80	<80	<80
Total power	kW	0.7	0.7	0.7	1	1	1.1	1.1
Compressed-air pressure	bar	6-8	6-8	6-8	6-8	6-8	6-8	6-8
Voltage/Frequency	V/Hz	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Dimensions WxDxH	mm	342x284x483	374x313x457	436x360x605	483x416x678	537x464x908	695x673x978	695x673x1179
Weight	kg	8	10	16	20	23	58	62



TECHNICAL CHARACTERISTICS

- Microprocessor controller with colour touch screen
- Proportioning air flow according to the requested output, thanks to a brushless motor.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Modular system.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

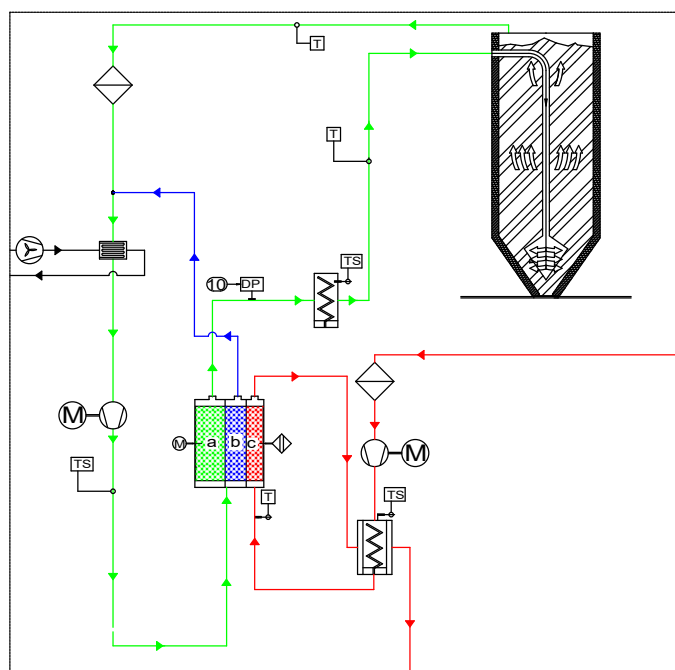
ACCESSORIES:

- DWH carriage.
- Material tank.

The DWH Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

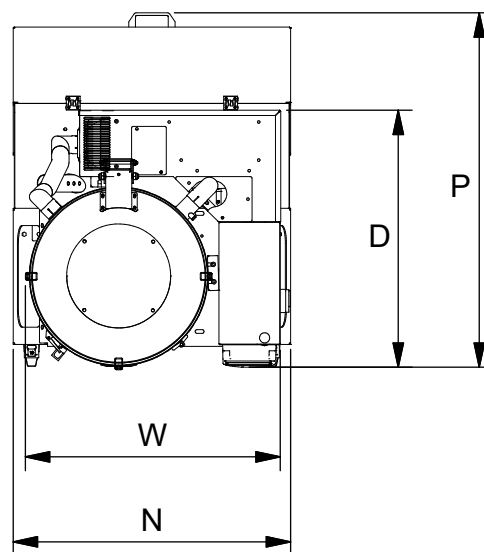
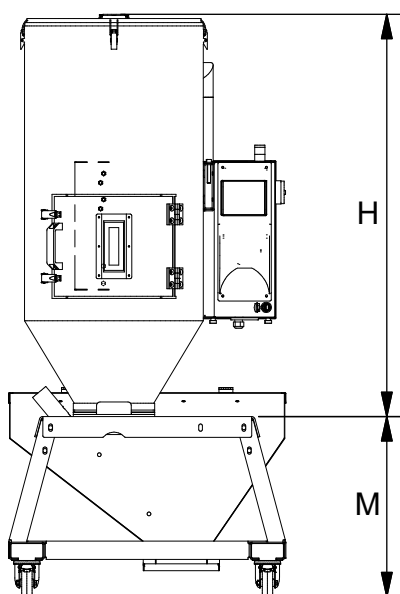
The DWH models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 30 to 80 m^3/h .

The process temperature can be set to up to 150°C . Available pairing with a wide range of hoppers with capacities of 30 to 200 l.



ADDED VALUE:

- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.
- **OPTIMISATION**
Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes. Does not require water or compressed air.
- **AIR FLOW MANAGEMENT (AFM)**
Does not release dust, ideal for the medical and optical fields.



Technical data

		Unit of measure	DWH H30	DWH H50	DWH H75	DWH H100	DWH H150	DWH H200
Air flow rate		m ³ /h	30-80	30-80	30-80	30-80	30-80	30-80
Process temperature		°C	60-150	60-150	60-150	60-150	60-150	60-150
Dew point		°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power		kW	0,45	0,45	0,45	0,45	0,45	0,45
Regeneration blower power		kW	0,08	0,08	0,08	0,08	0,08	0,08
Process heating power		kW	1	1	1	1	1	1
Regeneration heating power		kW	1	1	1	1	1	1
Total installed power		kW	2,5	2,5	2,5	2,5	2,5	2,5
Hopper capacity		dm ³	30	50	75	100	150	200
Voltage/Frequency		kW	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Dimensions	W	mm	670	670	730	730	815	815
	D		730	730	750	750	830	835
	H		740	960	970	1180	1300	1590
	M		725	725	725	725	725	725
	N		800	800	800	800	800	800
	P		1150	1150	1150	1150	1150	1150
Weight		kg	85	90	100	110	120	130



TECHNICAL CHARACTERISTICS

- Microprocessor controller with colour touch screen
- Proportioning air flow according to the requested output, thanks to a brushless motor.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Standard/Custom materials database.
- Material level management through weighing system.
- Material anti-stress function.
- Work start/end programming.
- Modular system.
- ETHERNET connection.

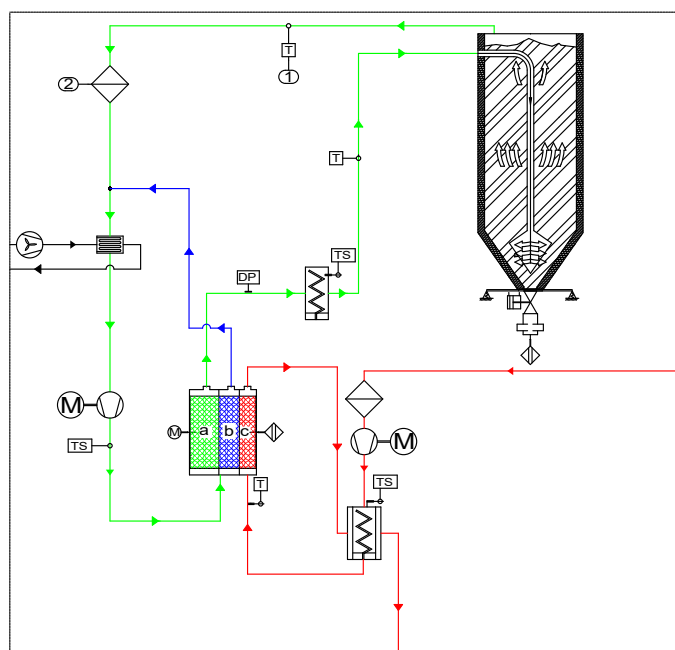
ACCESSORIES:

- DWH carriage.
- Material tank.

The DWH/C Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

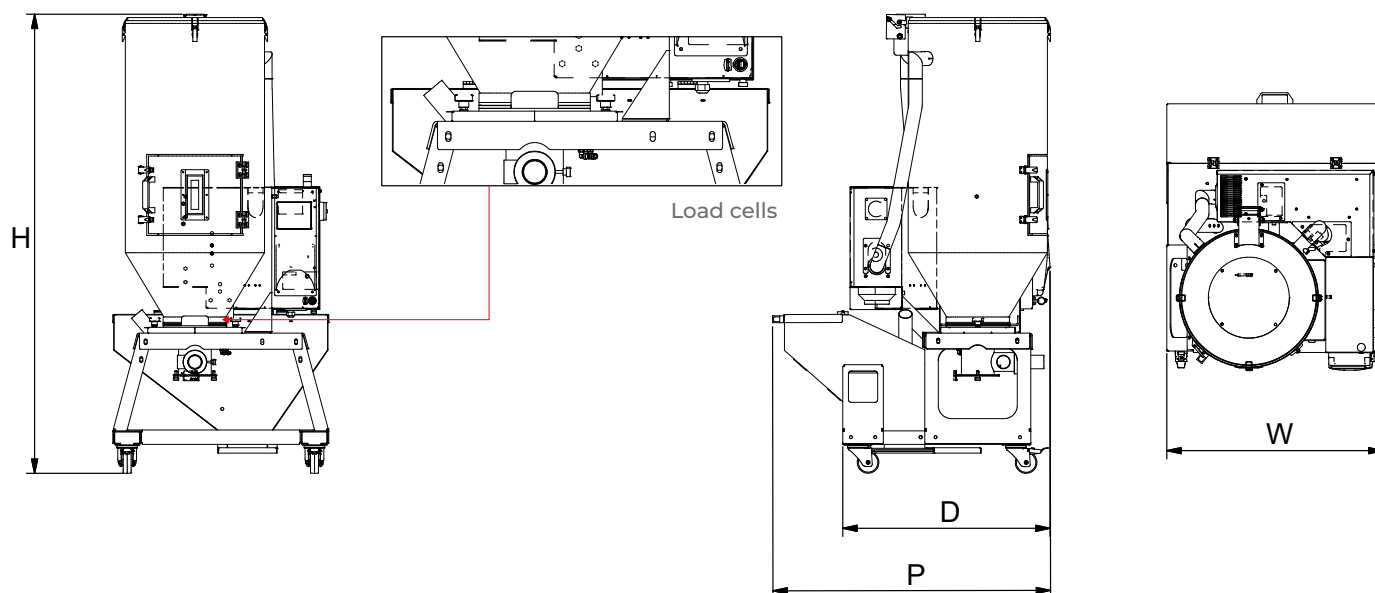
The DWH/C models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 30 to 80 m³/h.

The process temperature can be set to up to 150°C . Available pairing with a wide range of hoppers with capacities of 30 to 200 l.



ADDED VALUE:

- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.
- **OPTIMISATION**
Continuous performance monitoring with actual consumption values during the work process. Reads the processing machine consumption and adjusts to the output. The operator need only select the material to be processed from among those in the database.
- **AIR FLOW MANAGEMENT (AFM)**
Does not release dust, ideal for the medical and optical fields.



Technical data

	Unit of measure	DWH/C H30	DWH/C H50	DWH/C H75	DWH/C H100	DWH/C H150	DWH/C H200
Air flow rate	m³/h	30-80	30-80	30-80	30-80	30-80	30-80
Process temperature	°C	60-150	60-150	60-150	60-150	60-150	60-150
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power	kW	0,45	0,45	0,45	0,45	0,45	0,45
Regeneration blower power	kW	0,08	0,08	0,08	0,08	0,08	0,08
Process heating power	kW	1	1	1	1	1	1
Regeneration heating power	kW	1	1	1	1	1	1
Total installed power	kW	2,5	2,5	2,5	2,5	2,5	2,5
Hopper capacity	dm³	30	50	75	100	150	200
Voltage/Frequency	kW	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Dimensions	W	mm	800	800	800	800	800
	D		770	770	770	815	815
	H		1465	1690	1690	2040	2335
	P		1150	1150	1150	1150	1150
Weight	kg	155	170	170	180	190	205

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EN



European Patent n.

EP 2447027



TECHNICAL CHARACTERISTICS:

- Microprocessor control.
- Touch screen operator panel.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Regeneration temperature control according to the required dew point.
- Integrated hopper and processing machine loading.
- Standard/Custom materials database.
- Material level management through weighing system.
- Material anti-stress function.
- Work start/end programming.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

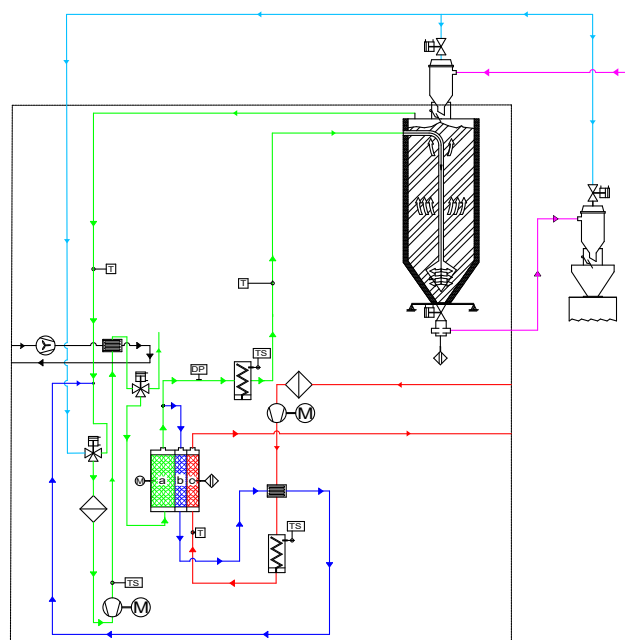
ACCESSORIES:

- Dew point device.
- Feeders for DWC.
- DWC Multi-Touch remote control.

DWC compact models work with rotor technology, with flow rates from 40 to 300 m³/h, making it possible to manage the loading of the hopper and processing machine.

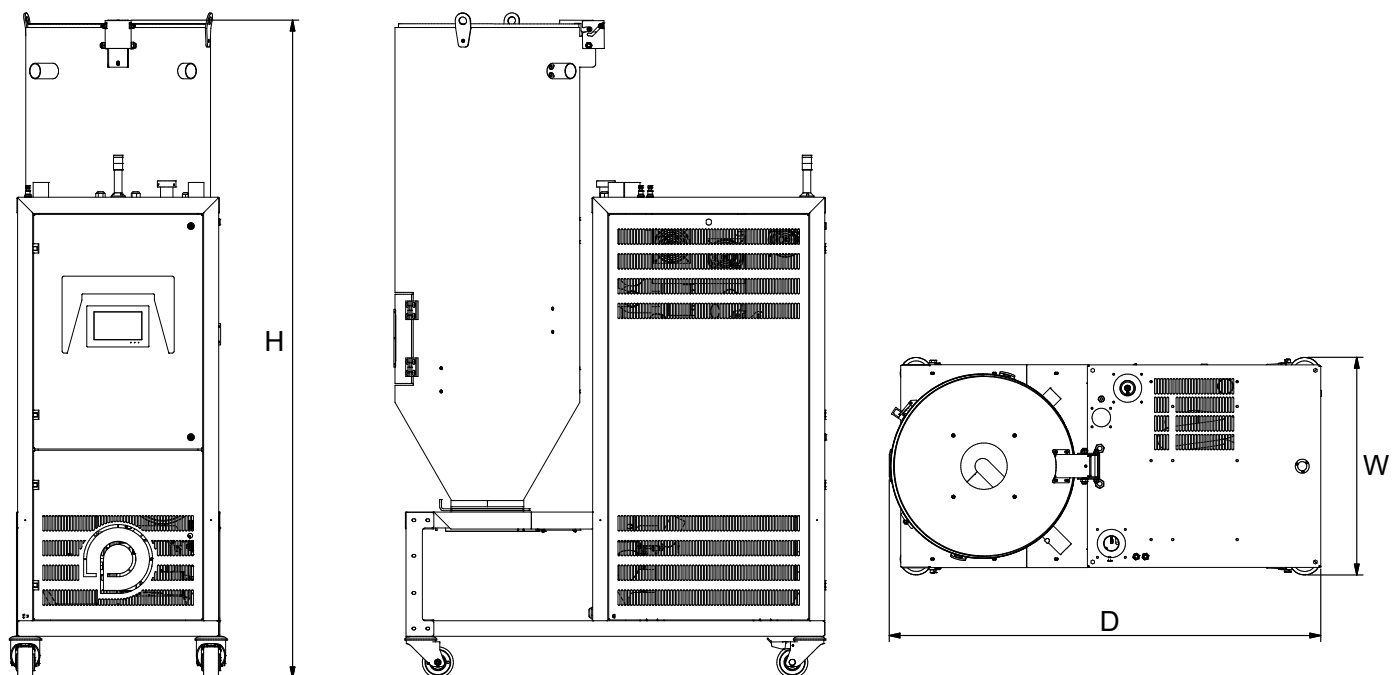
A sophisticated microprocessor control, together with a weighing system, makes the process ideal, while a colour touch screen creates a simple operator interface.

The DWC series offers a perfect solution for all dehumidification fields, including the most demanding ones such as the optics and pharmaceuticals sectors.



ADDED VALUE:

- **OPTIMISATION**
Continuous performance monitoring with actual consumption values during the work process. Reads the processing machine consumption and adjusts to the output. The operator need only select the material to be processed from among those in the database.
- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection at the same time.



Technical data

	Unit of measure	DWC120 H150	DWC120 H200	DWC200 H300	DWC200 H400	DWC300 H600	DWC300 H800
Air flow rate.	m ³ /h	40÷120	40÷120	70÷200	70÷200	100÷300	100÷300
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process temperature	°C	60÷150	60÷150	60÷150	60÷150	60÷150	60÷150
Process blower power	kW	0,85	0,85	1,3	1,3	3	3
Regeneration blower power	kW	0,2	0,2	0,4	0,4	0,4	0,4
Process heating power	kW	2	2	3,5	3,5	5	5
Regeneration heating power	kW	1,5	1,5	2	2	3,5	3,5
Total installed power	kW	4,6	4,6	7,2	7,2	11	11
Hopper capacity	dm ³	150	200	300	400	600	800
Voltage/Frequency	kW	400/50-60	400/50-60	400/50-60	400/50-60	400/50-60	400/50-60
Dimensions WxDxH	mm	705x1395x1835	705x1395x2125	835x1630x2285	835x1630x2535	1030x2070x2600	1030x2070x3000
Weight	kg	290	305	380	390	530	555

EN

MT version



TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Modular system.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

ACCESSORIES:

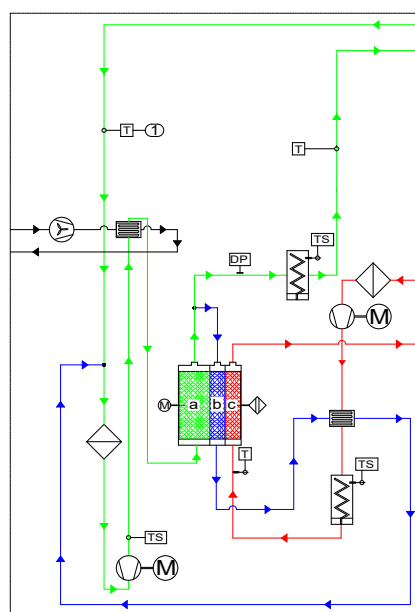
- Misuratore Dew Point.
- Touch screen 7" a colori

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 40 to 250 m^3/h .

The process temperature can be set to up to 150°C in each hopper.

Available pairing with a wide range of hoppers with capacities of 50 to 600 l.



ADDED VALUE:

• ENERGY EFFICIENCY

Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.

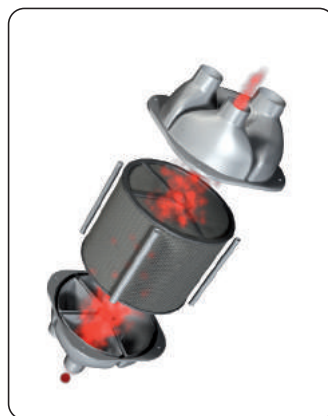
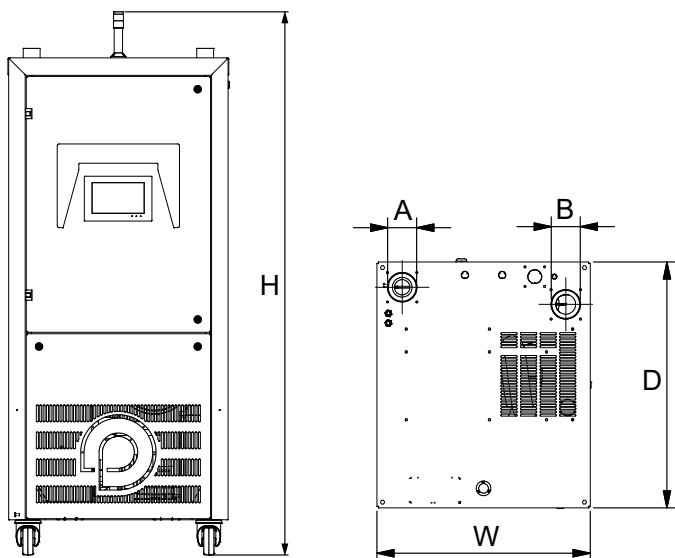
• OPTIMISATION

Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes.

Does not require water or compressed air.

• AIR FLOW MANAGEMENT (AFM)

Does not release dust, ideal for the medical and optical fields.



Technical data

	Unit of measure	DW120	DW200	DW250
Air flow rate	m ³ /h	40÷120	70÷200	80÷250
Process temperature	°C	60÷150	60÷150	60÷150
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power	kW	0,85	1,3	1,5
Regeneration blower power	kW	0,2	0,4	0,4
Process heating power	kW	2	3,5	5
Regeneration heating power	kW	2	2	3,5
Total installed power	kW	5,1	7,2	10,9
Voltage/Frequency	V/Hz	400/50-60	400/50-60	400/50-60
Air connectors (A-B)	mm	Ø50	Ø89	Ø89
Dimensions WxDxH	mm	660x760x1610		
Weight	kg	190	210	220

Couplings with hopper n°	H50	H75	H100	H150	H200	H300	H400	H600
DW120	4	3	2	1	1	-	-	-
DW200	6	4	3	2	2	1	1	
DW250	-	8	6	4	3	2	1	1



TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Modular system.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

ACCESSORIES:

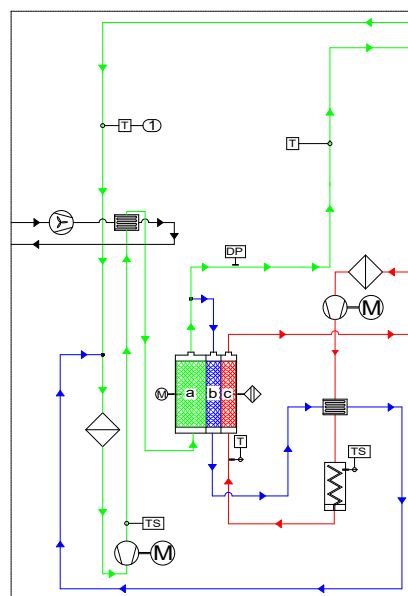
- Dew point meter.
- 7" Colour touch screen

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 40 to 250 m^3/h .

The process temperature can be set to up to 150°C in each hopper.

Available pairing with a wide range of hoppers with capacities of 50 to 600 l.



ADDED VALUE:

• ENERGY EFFICIENCY

Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.

• OPTIMISATION

Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes.

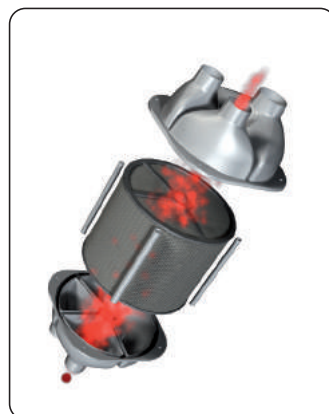
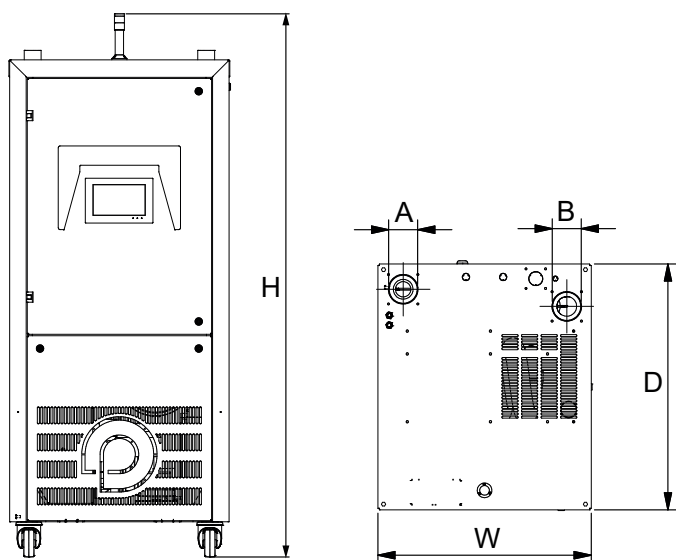
Does not require water or compressed air.

• AIR FLOW MANAGEMENT (AFM)

Does not release dust, ideal for the medical and optical fields.

• MULTI-HOPPER DRYING

Ready for multi-hopper drying (with up to 8 hoppers).



Technical data

	Unit of measure	DW120	DW200	DW250
Air flow rate	m ³ /h	40÷120	70÷200	80÷250
Process temperature	°C	60	60	60
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power	kW	0,85	1,3	1,5
Regeneration blower power	kW	0,2	0,4	0,4
Regeneration heating power	kW	2	2	3,5
Total installed power	kW	3,1	3,7	5,9
Voltage/Frequency	V/Hz	400/50-60		
Air connectors (A-B)	mm	Ø50	Ø89	Ø89
Dimensions WxDxH	mm	660x760x1610		
Weight	kg	190	210	220

Couplings with hopper n°	H50	H75	H100	H150	H200	H300	H400	H600
DW120	4	3	2	1	1	-	-	-
DW200	6	4	3	2	2	1	1	
DW250	-	8	6	4	3	2	1	1

EN

CS version



TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

ACCESSORIES:

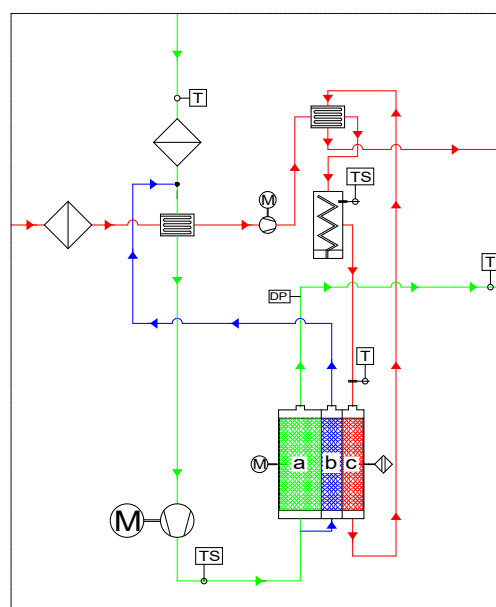
- Dew point meter.
- 7" Colour touch screen.

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 100 to 1000 m^3/h .

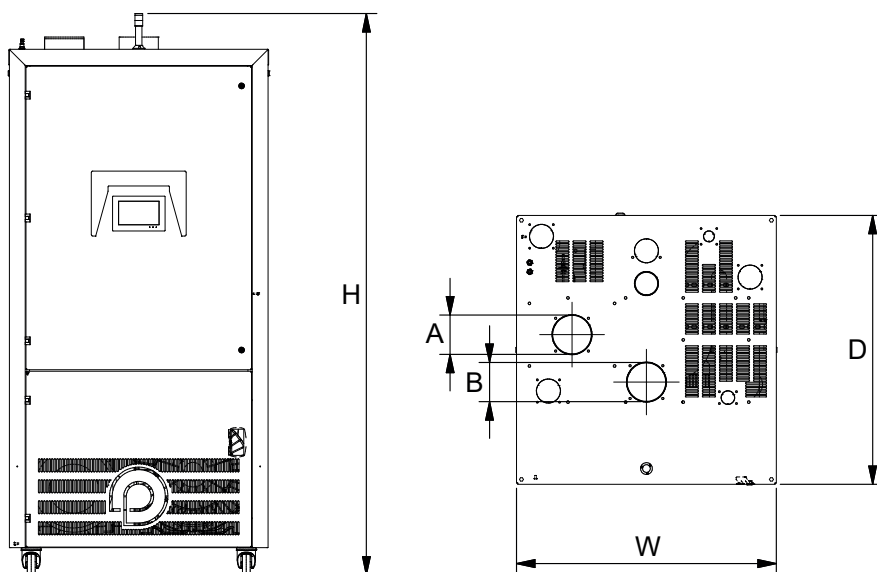
The process temperature can be set to up to 150°C in each hopper.

Available pairing with a wide range of hoppers with capacities of 100 to 2000l.



ADDED VALUE:

- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.
- **OPTIMISATION**
Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes. Does not require water or compressed air.
- **AIRFLOW MANAGEMENT**
Does not release dust, ideal for the medical and optical fields.
- **MULTI-HOPPER DRYING**
Ready for multi-hopper drying (with up to 10 hoppers).



Technical data

	Unit of measure	DW300	DW400	DW600	DW1000
Air flow rate	m ³ /h	100÷300	130÷400	200÷600	300-1000
Process temperature	°C	60	60	60	60
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power	kW	3	4	5,5	8,5
Regeneration blower power	kW	0,4	1,5	1,5	1,6
Regeneration heating power	kW	3,5	5	9	9
Total installed power	kW	6,0	10,5	16,0	19,1
Voltage/Frequency	V/Hz	400/50-60	400/50-60	400/50-60	400/50-60
Air connectors (A-B)	mm	Ø89	Ø150	Ø150	Ø150
Dimensions WxDxH	mm	990X1030x2140			
Weight	kg	320	400	450	500

Couplings with hopper n°	H100	H150	H200	H300	H400	H600	H800	H1200	H1500	H2000
DW300	8	6	4	3	2	1	-	-	-	-
DW400	8	6	6	4	3	2	1	-	-	-
DW600	10	10	8	5	4	2	2	1	1	-
DW1000	10	10	8	6	6	4	3	2	1	1



TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

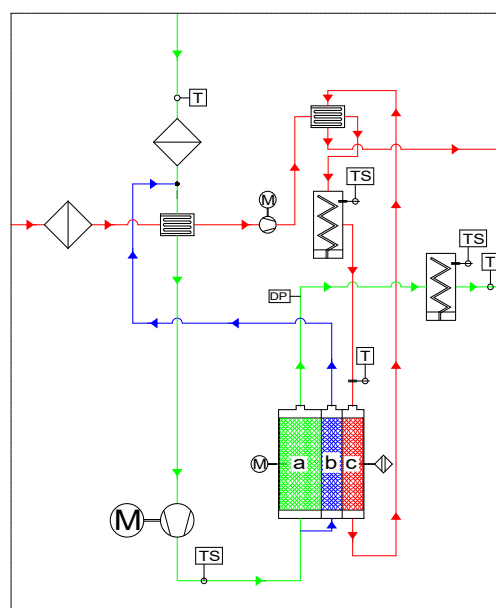
ACCESSORIES:

- Dew point meter.
- 7" Colour touch screen.

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility.

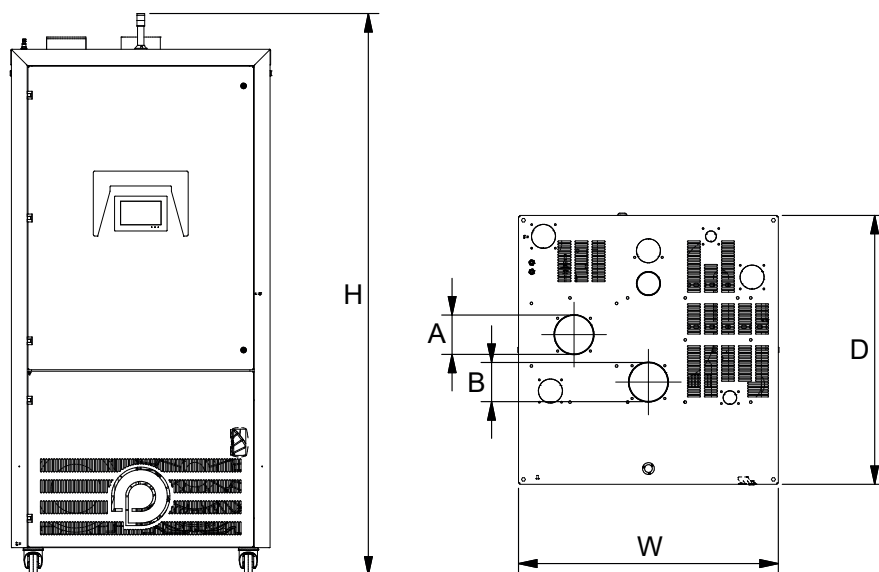
The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 100 to 1000 m^3/h .

The process temperature can be set to up to 150°C . Available pairing with a wide range of hoppers with capacities of 100 to 2000l.



ADDED VALUE:

- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.
- **OPTIMISATION**
Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes. Does not require water or compressed air.
- **AIR FLOW MANAGEMENT (AFM)**
Does not release dust, ideal for the medical and optical fields.
- **MULTI-HOPPER DRYING**
Ready for multi-hopper drying (with up to 10 hoppers).



Technical data

	Unit of measure	DW300	DW400	DW600	DW1000
Air flow rate	m ³ /h	100÷300	130÷400	200÷600	300-1000
Process temperature	°C	60÷150	60÷150	60÷150	60÷150
Dew point	°C	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50	-25 ÷ -50
Process blower power	kW	3	4	5,5	8,5
Regeneration blower power	kW	0,4	1,5	1,5	1,6
Process heating power	kW	5	7,5	15	22,5
Regeneration heating power	kW	3,5	5	9	9
Total installed power	kW	11,0	18,0	31,0	41,6
Voltage/Frequency	V/Hz	400/50-60	400/50-60	400/50-60	400/50-60
Air connectors (A-B)	mm	Ø89	Ø150	Ø150	Ø150
Dimensions WxDxH	mm	990X1030x2140			
Weight	kg	320	400	450	500

Couplings with hopper n°	H100	H150	H200	H300	H400	H600	H800	H1200	H1500	H2000
DW300	8	6	4	3	2	1	-	-	-	-
DW400	8	6	6	4	3	2	1	-	-	-
DW600	10	10	8	5	4	2	2	1	1	-
DW1000	10	10	8	6	6	4	3	2	1	1



TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Modular system.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

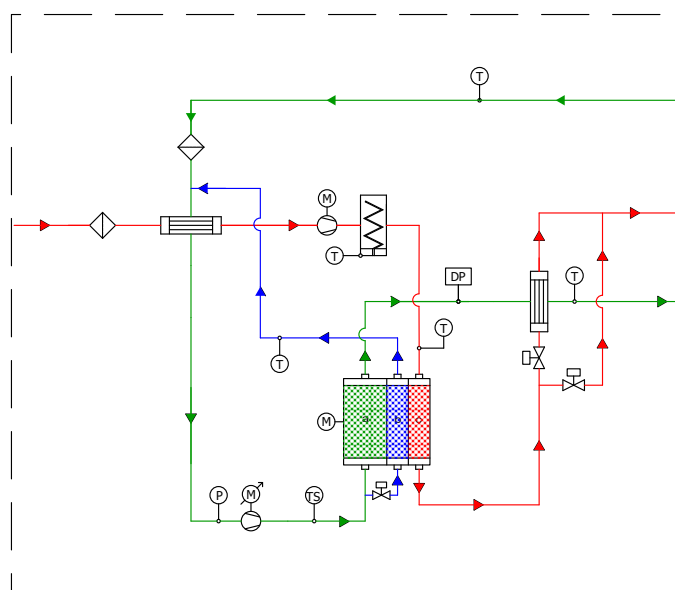
ACCESSORIES:

- Dew point meter.
- 7" Colour touch screen.

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility for medium and high outputs.

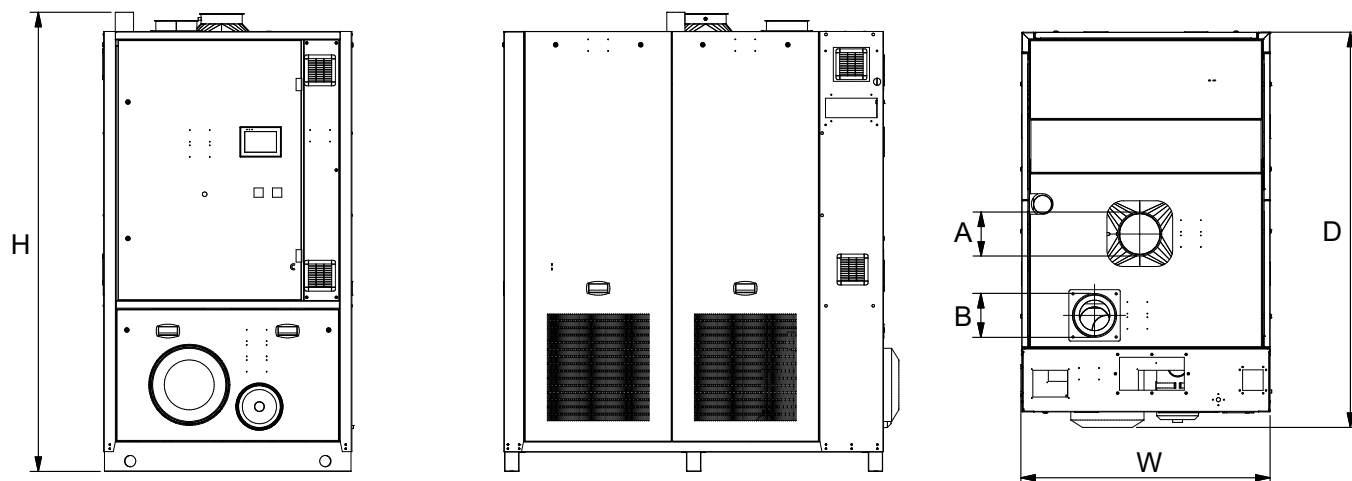
The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 500 to 1500 m^3/h .

The process temperature can be set to up to 150°C .



ADDED VALUE:

- **ENERGY EFFICIENCY**
Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.
- **OPTIMISATION**
Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes.
Does not require water or compressed air.
- **AIR FLOW MANAGEMENT (AFM)**
Does not release dust, ideal for the medical and optical fields.



Technical data

	Unit of measure	DW1500
Air flow rate	m ³ /h	500-1500
Process temperature	°C	60÷150
Dew point	°C	-25 ÷ -50
Process blower power	kW	11
Regeneration blower power	kW	5,5
Regeneration heating power	kW	40
Regeneration heating power	kW	22,5
Total installed power	kW	79
Voltage/Frequency	V/Hz	400/50-60
Air connectors (A-B)	mm	Ø200
Dimensions WxDxH	mm	1220x1930x2235
Weight	kg	1300

[*] External chamber



TECHNICAL CHARACTERISTICS:

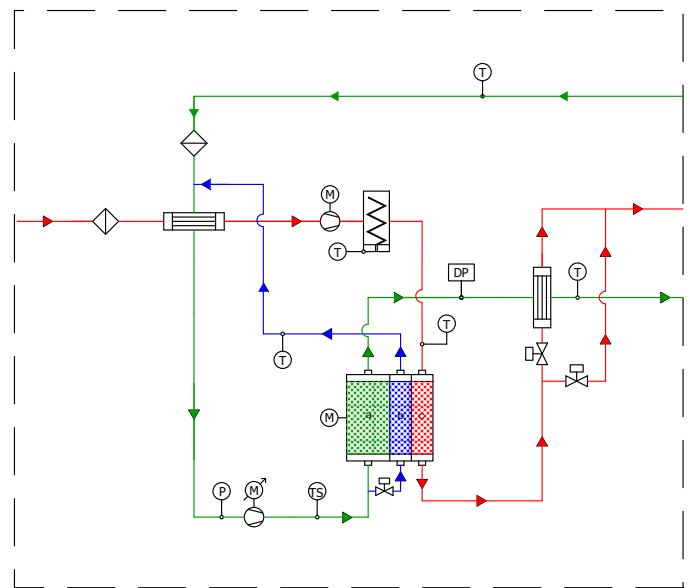
- Microprocessor controller with LCD screen.
- Inverter-modulated air flow according to required output.
- Self-adjusting Dew Point control for process optimisation.
- PID electronic process temperature control
- Daily/Weekly scheduler.
- Regeneration temperature control according to the required dew point.
- Material anti-stress function.
- Modular system.
- Standard/Custom materials database.
- ModBus RTU/TCP interface.

ACCESSORIES:

- Dew point meter.
- 7" Colour touch screen.

The DW Series desiccant dryers with rotor technology offer high performance levels in the drying field and maximum efficiency and operating versatility for medium and high outputs. The DW models maintain a constant Dew Point value of between -25°C and -50°C , with flow rates from 500 to 1500 m^3/h .

The process temperature can be set to up to 150°C .



ADDED VALUE:

• ENERGY EFFICIENCY

Energy consumption represents the main cost during the life cycle of a machine, so the right choice makes for a quick return on the investment and a higher margin on the finished product. The most innovative desiccant dehumidification technology: energy saving and environmental protection.

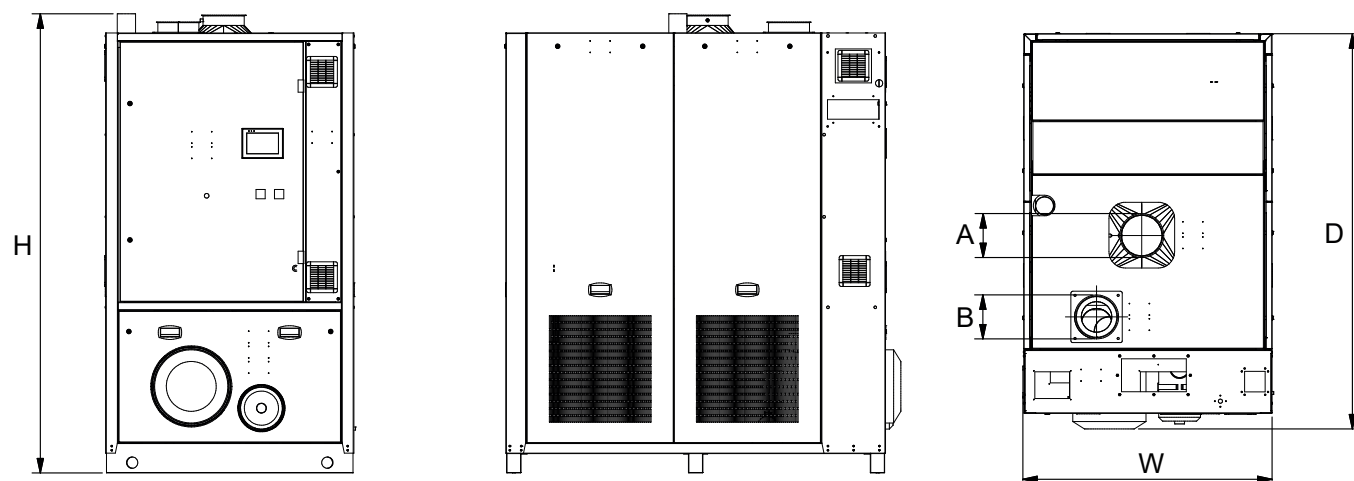
• OPTIMISATION

Easy programming with only two parameters: type of material (selectable from the database) and hourly consumption. It is up and running in just 3 minutes.

Does not require water or compressed air.

• AIR FLOW MANAGEMENT (AFM)

Does not release dust, ideal for the medical and optical fields.



Technical data

	Unit of measure	DW1500
Air flow rate	m ³ /h	500-1500
Process temperature	°C	60
Dew point	°C	-25 ÷ -50
Process blower power	kW	11
Regeneration blower power	kW	5,5
Regeneration heating power	kW	22,5
Total installed power	kW	39
Voltage/Frequency	V/Hz	400/50-60
Air connectors (A-B)	mm	Ø200
Dimensions WxDxH	mm	1218x1928x2194
Weight	kg	1300



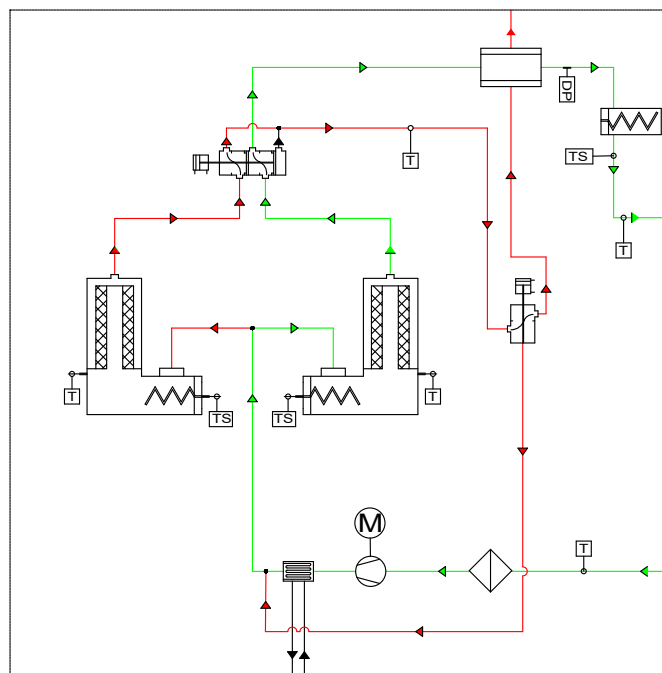
TECHNICAL CHARACTERISTICS:

- Microprocessor controller with LCD display and easy programming (just type of material, selectable from the database, and consumption/h).
- Single- or multi-hopper configuration.
- Regeneration cycle monitoring.
- Automatic stop to avoid granule degeneration.
- Automatic cooling water control valve
- Solid-state relays
- Blower and molecular sieve protection filters.
- ModBus RTU/TCP interface.

ACCESSORIES:

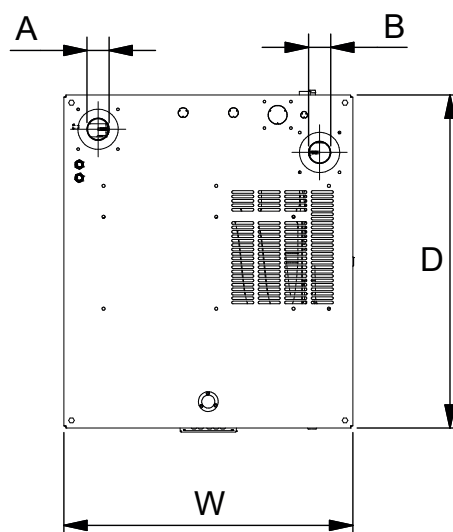
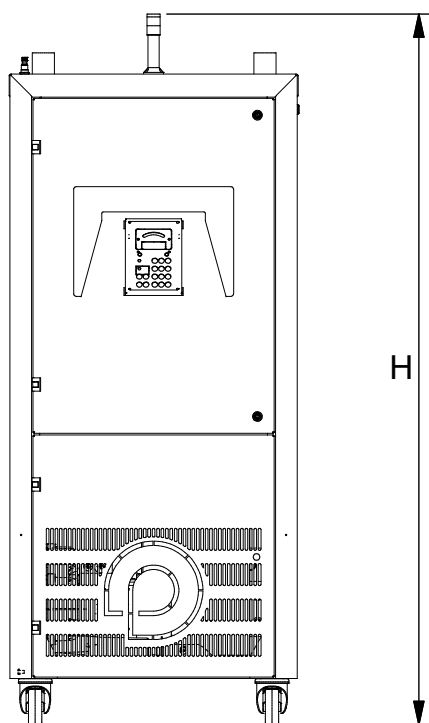
- Dew point meter.
- 7" Colour touch screen.

D series desiccant dryers have TWIN TOWER technology and process air flows of 80 to 150 m³/h and dew point value of up to -50°C, that make it possible to satisfy all and any production requirements. They are suitable for hygroscopic polymers processing.



ADDED VALUE:

- **STABLE PROCESS**
PID process temperature control.
- **EASY MANAGEMENT**
The interface with keyboard and multi-language digital display provides constant monitoring of the machine, by highlighting the key parameters such as temperature and dew point.
- **AIRFLOW MANAGEMENT (AFM)**
The microprocessor optimises the operating parameters (air flow rate and temperature) according to material and output, resulting in energy savings. Additionally, it prevents polymer degradation.



Technical data

		Unit of measure	D800	D801	D802
Air flow rate		m³/h	80	120	150
Process temperature	MT	°C	60-140	60-140	60-140
	HT	°C	60-180	60-180	60-180
Dew point		°C	-40	-40	-50
Process blower power		kW	0,75	1,1	1,5
Process heating power	MT	kW	1,5	2	3,5
	HT	kW	2	3,5	5
Regeneration heating power		kW	1,5	1,5	2
Total installed power	MT	kW	3,8	4,6	7,0
	HT	kW	4,3	6,1	8,5
Voltage/Frequency		V/Hz	400/50-60		
Air connectors (A-B)		mm	Ø50		
Dimensions WxDxH		mm	660x760x1610		
Weight		kg	190	200	210



TECHNICAL CHARACTERISTICS:

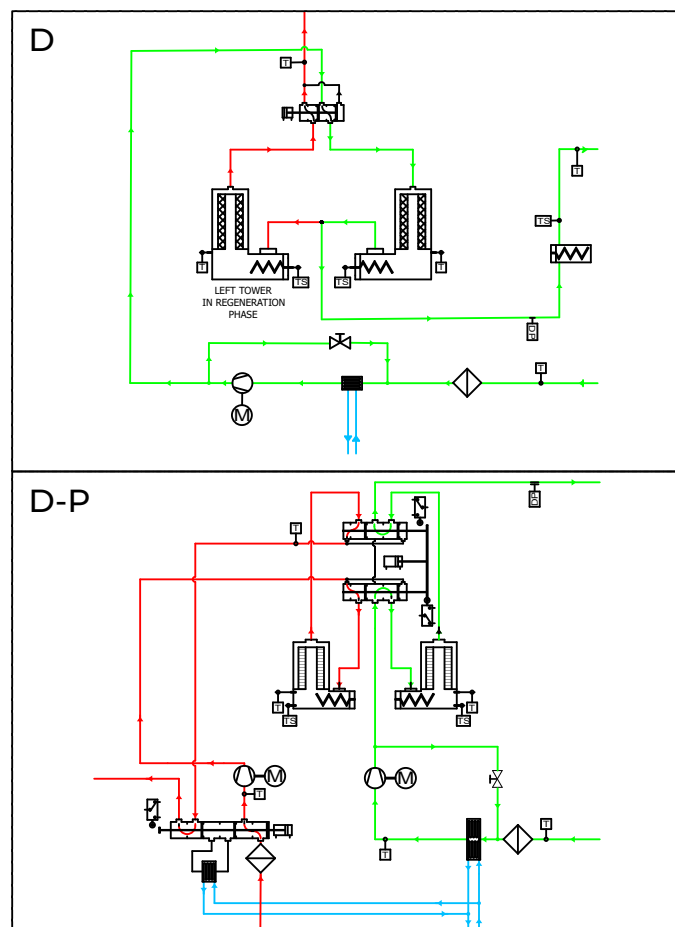
- Microprocessor controller with LCD display and easy programming (just type of material, selectable from the database, and consumption/h).
- Single- or multi-hopper configuration.
- Regeneration cycle monitoring.
- Automatic stop to avoid granule degeneration.
- Automatic cooling water control valve
- Solid-state relays
- Blower and molecular sieve protection filters.
- ModBus RTU/TCP interface.

ACCESSORIES:

- Dew point meter.
- 7" Colour touch screen.

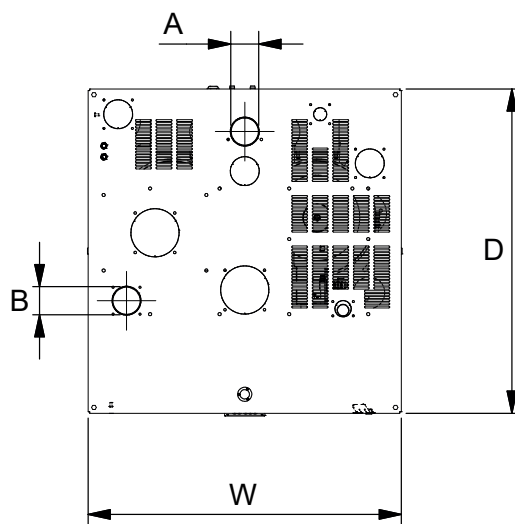
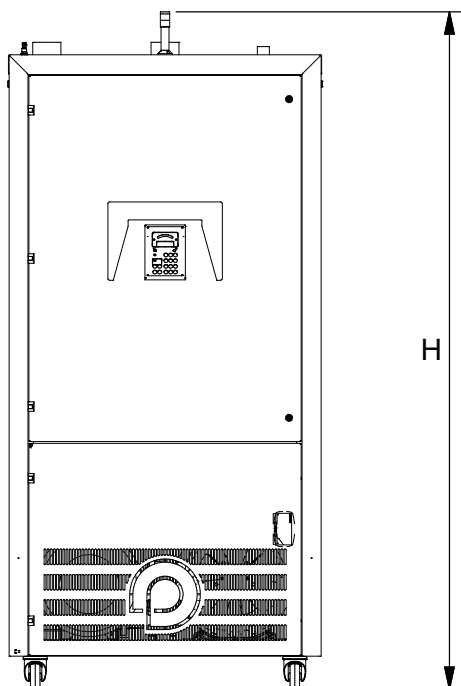
D series desiccant dryers have TWIN TOWER technology, process air flow rates of 300 to 700 m³/h and dew point values of up to -50°C, that make it possible to satisfy all and any production requirements.

They are suitable for hygroscopic polymers processing.



ADDED VALUE:

- **STABLE PROCESS**
PID process temperature control.
- **EASY MANAGEMENT**
The interface with keyboard and multi-language digital display provides constant monitoring of the machine, by highlighting the key parameters such as temperature and dew point.
- **AIRFLOW MANAGEMENT (AFM)**
The microprocessor optimises the operating parameters (air flow rate and temperature) according to material and output, resulting in energy savings. Additionally, it prevents polymer degradation.



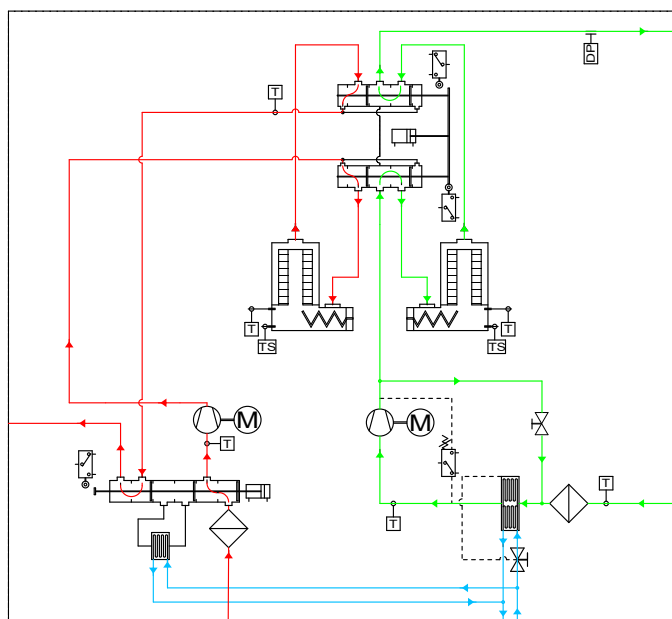
Technical data

			D803	D805	D803P	D805P	D808P
Air flow rate		m ³ /h	300	500	300	500	700
Process temperature	MT	°C	60-140	60-140	-	-	-
	HT	°C	60-180	60-180	60-180	60-180	60-180
Dew point		°C	-50	-50	-50	-50	-50
Process blower power		kW	3	5,5	3	5,5	7,5
Regeneration blower power		kW	-	-	0,4	0,4	0,55
Process heating power	MT	kW	7,2	14,4	-	-	-
	HT		10,8	18	10,8	18	27
Regeneration heating power		kW	5	5	5	5	5
Total installed power	CS	kW	-	-	8,6	11,1	13,1
	MT		15,2	24,9	-	-	-
	HT		18,8	28,5	14,4	24,1	35,1
Voltage/Frequency		V/Hz	400/50-60				
Air connectors (A-B)		mm	Ø89				
Dimensions WxDxH		mm	940x972x2040				
Weight		kg	380	400	400	420	500



The resin dryers of the D series are equipped with TWIN-TOWER technology and offer process airflow rates ranging from 600 m³/h up to 1500 m³/h with dew point up to - 50 °C so as to satisfy any production requirement.

The perfect solution for processing hygroscopic polymers in small and medium productions.



TECHNICAL CHARACTERISTICS:

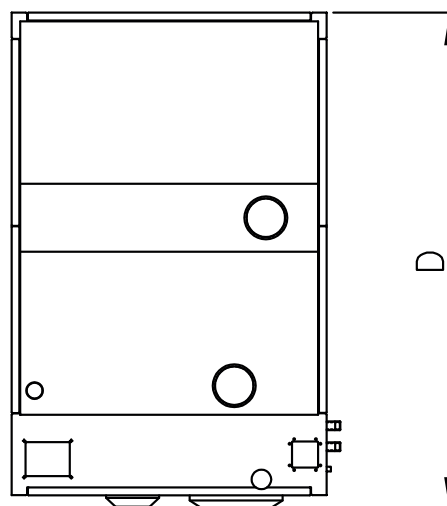
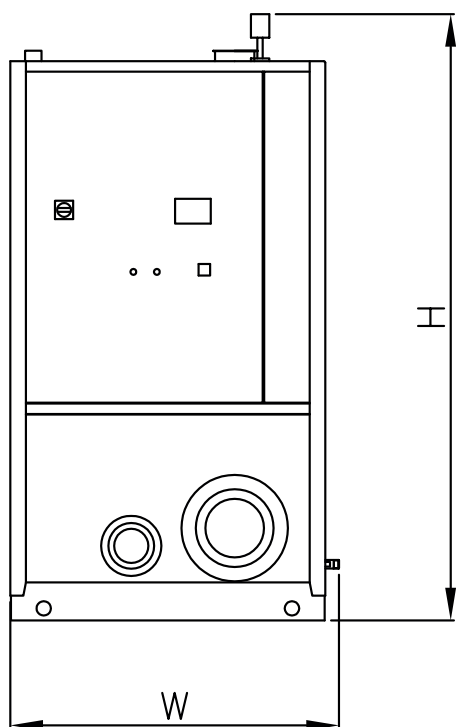
- Microprocessor control unit with LCD display and easy programming (type of material selectable from a database and hourly consumption).
- Single-hopper or multi-hopper configurations.
- Control of the regeneration cycle.
- Automatic shutdown to prevent the degradation of the granule.
- Automatic valve to control cooling water.
- Solid-state relays.
- Filters to protect blowers and molecular sieves.
- ModBus RTU/TCP interface.

ACCESSORIES:

- Dew Point instrument.
- Colour touch screen.
- Clogged filter alarm.
- Safety control on process air.

ADDED VALUE:

- **PROCESSO STABILE**
Controllo PID della temperatura di processo.
- **FACILITÀ DI CONTROLLO**
L'interfaccia con tastiera e display digitale multilingua offre un monitoraggio costante della macchina evidenziando i parametri principali come la temperatura e il dew point.
- **CONTROLLO PORTATA D'ARIA (AFM)**
The microprocessor, according to material and throughput, optimizes the operating parameters (airflow rate and temperature) resulting in energy saving. It also prevents the degradation of the polymer itself due to an excessive dehumidification.



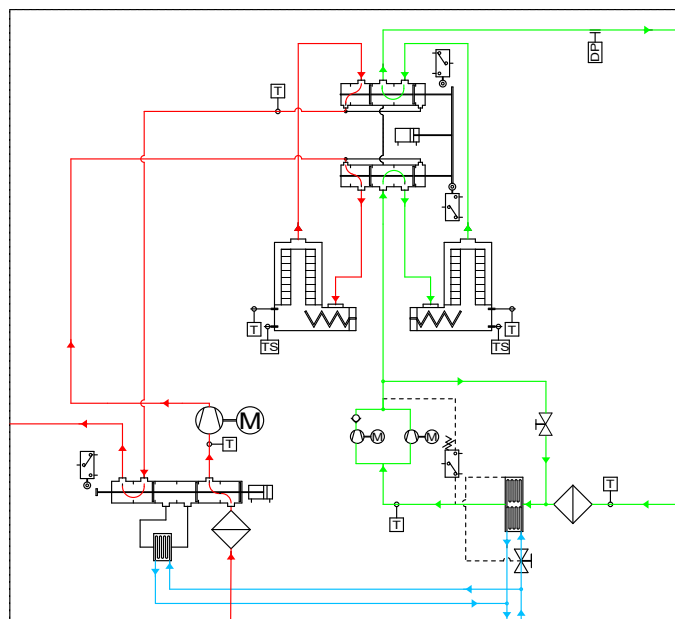
Technical data

		Unit of mesaure	D808P	D810P	D815P	D818P
Maximum process airflow		m ³ /h	750	1000	1350	1500
Process temperature		°C	50-190	50-190	50-190	50-190
Dew point		°C	-50	-50	-50	-50
Static pressure		mbar	250	200	200	200
Process-blower power		kW	7.5	7.5	11	15
Regeneration-blower power		kW	0.75	0.75	1.5	1.5
Regeneration-heating power		kW	12	12	18	18
Total power	CS	kW	22	22	31.3	41.3*
	HT		62	62.5	87	95.3*
Hopper capacity		dm ³	100 - 4500			
Noise level		dB(A)	<80	<80	<80	<80
Voltage/Frequency		V/Hz	400/50-60	400/50-60	400/50-60	400/50-60
Dimensions WxDxH		mm	1210x1850x2180	1210x1850x2180	1210x1850x2180	1210x1850x2180
Weight		kg	1330	1400	1450	1500



The resin dryers of the D series are equipped with TWIN-TOWER technology and offer process airflow rates ranging from 2000 m³/h up to 2800 m³/h with dew point up to - 50 °C so as to satisfy any production requirement.

The perfect solution for processing hygroscopic polymers in small and medium productions.



TECHNICAL CHARACTERISTICS:

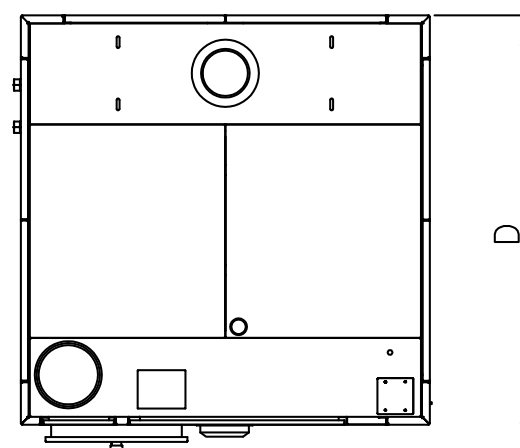
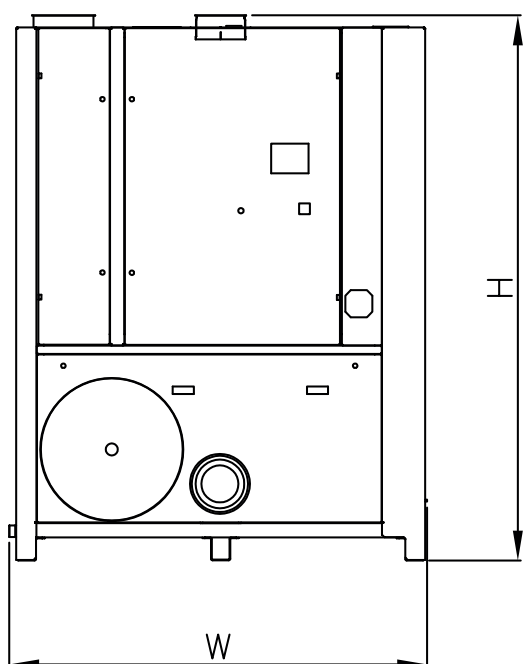
- Microprocessor control unit with LCD display and easy programming (type of material selectable from a database and hourly consumption).
- Single-hopper or multi-hopper configurations.
- Control of the regeneration cycle.
- Automatic shutdown to prevent the degradation of the granule.
- Automatic valve to control cooling water.
- Solid-state relays.
- Filters to protect blowers and molecular sieves.
- ModBus RTU/TCP interface.

ACCESSORIES:

- Dew Point instrument.
- Colour touch screen.
- Clogged filter alarm.
- Safety control on process air.

ADDED VALUE:

- **PROCESSO STABILE**
Controllo PID della temperatura di processo.
- **FACILITÀ DI CONTROLLO**
L'interfaccia con tastiera e display digitale multilingua offre un monitoraggio costante della macchina evidenziando i parametri principali come la temperatura e il dew point.
- **CONTROLLO PORTATA D'ARIA (AFM)**
The microprocessor, according to material and throughput, optimizes the operating parameters (airflow rate and temperature) resulting in energy saving. It also prevents the degradation of the polymer itself due to an excessive dehumidification.



Technical data

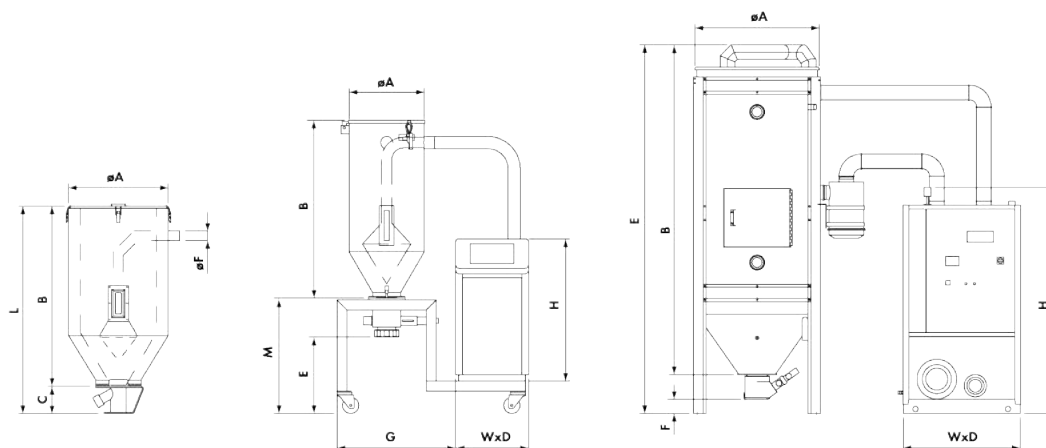
			D820P	D824P	D830P	D840P
Hopper capacity		dm ³	400 - 6000	400 - 8000	400 - 12000	400 - 16000
Maximum process airflow		m ³ /h	2000	2200	2500	2800
Process temperature		°C	50-190	50-190	50-190	50-190
Dew point		°C	-50	-50	-50	-50
Static pressure		mbar	250	250	200	200
Process-blower power		kW	18.5	11+11	15+15	18.5+18.5
Regeneration-blower power		kW	4	4	4	4
Regeneration-heating power		kW	24	24	24	24
Total power	CS	kW	47.5	58	59	66
	HT		115	139	140	174
Noise level		dB(A)	<80	<80	<80	<80
Voltage/Frequency		V/Hz	400/50-60	400/50-60	400/50-60	400/50-60
Dimensions WxDxH		mm	1650x1700x2220	1650x1700x2220	1650x1700x2220	1650x1700x2220
Weight		kg	1650	1700	2000	2150



DRYING AND HOPPER CALCULATION

EXAMPLE: PC 80 kg/h / 167.4lb/h
 AIR FLOW: 80 x 2 = 160 m³/h / 94.2cfm
 HOPPER CAPACITY = 80 x 2.5 / 0.65 = 307lt
 / 11gal
 D802 H300 or DW200i

PLASTIC MATERIAL	Hygroscopic	Chemical Description	Trade Name	BULK DENSITY [kg/dm ³]	Drying TIME [h]	MAX Drying TIME [h]	Drying TEMPERATURE [°C]	Nominal AIR FLOW [m ³ /kg]	FINAL MOISTURE [% in weight]	Typ STARTING Moisture [% in weight]
ABS (extrusion grade)	yes	Acrylo Butadiene Styrene		0.55	3-4		80-85	2.2	<0.015	<0.2
ABS (moulding grade)	yes	Acrylo Butadiene Styrene	Lustran, Novodur	0.55	2-3		85	2	<0.020	<0.2
CA (2)	yes	Cellulose Acetate	Tenite	0.70	2-3		70	2	<0.020	<0.7
CAB	yes	Cellulose Acetate/Butirrate		0.60	2-3		70	2	<0.020	<0.6
EVA (2)	yes	Ethylene Vinil Acetate		0.60	2-3		90-105	1.8	-	-
EVOH	yes	Ethylene Vinil Alcool		0.60	2-3		90-105	2	-	-
IM (4)	yes	Ionomer	Surlyn	0.50	3		60	2	<0.080	<0.2
LCP (1) (3)	yes	Liquid Crystals Polymer	Vectra, Zenite	0.80	3-4		150	2.2	<0.01	<0.05
PA 11-12 (3) (*) - Nylon	yes	Poly Amide, Nylon	Rilsan	0.60	3-5	8	70-80	2	0.15-0.02*	0.6-1.2*
PA 6, 46, 66 (3) (*) - Nylon		PolyAmide	Stanyl, Zytel, Gelon, Durethan	0.60	4-6	8	70-80	2	0.15-0.02*	0.6-1.2*
PAI	yes	PolyArylenimide		0.85	6-8		180	2	<0.02	-
PAR (1) (3)	yes	PolyArylate		0.70	5-6	12	120	2	<0.02	-
PBT (1) (3)	yes	PolyButylene Terephthalate	Pocan, Valox, Crastin	0.80	3-4	10	130-140	2.2	<0.02	<0.15
PC (3)	yes	PolyCarbonate	Makrolon, Lexan, Panlite, Apec	0.65	2-3		120	2	<0.02	<0.3
PC for OD (1) (3)	yes	PolyCarbonate	Makrolon, Lexan, Panlite	0.65	3		120	2.7	<0.01	<0.2
PC/ABS	yes	Abs/Polycarbonate	BayBland, Cycloy	0.65	3		100	2	<0.02	<0.1
PC/PBT	yes	Polycarbonate/PBT	Xenoy	0.75	3-4		110	2.2	-	-
PE, HDPE cable (*) (alogen free, cross linked)	yes	Polyethylene		0.70	4-10		60	2.5	<0.04*	<0.08
PE, HDPE, LDPE (7)	NO	Polyethylene		0.50	1		85	1.6	<0.01	<0.02
PE, HDPE, LDPE black 3%	yes	Polyethylene + carbonBlack 3%		0.55	2-3		80	1.8	<0.01	-
PE, HDPE, LDPE black 40%	yes	Polyethylene + carbonBlack 50%		0.70	2-3		80-90	2	<0.02	<0.2
PEEK (1) (3)	yes	Polyether Ether Ketone		0.80	3-4		150-160	2.2	<0.05	<0.1
PEI (1) (3)	yes	Polyetherimide	Ultem	0.75	4-5	10	140-160	2.5	<0.01	<0.2
PEN (1) (3)	yes	PolyetherNaphtalene		0.85	5-6	10	150-170	3	<0.005	-
PES	yes	PolyetherSulfone		0.80	3-4		150-180	2	<0.05	0.35
PET fiber textile (1) (3) (8)	yes	Polyethylene Terephthalate	Melinar	0.84	5-6	10	160-180	3	<0.003	<0.2
PET bottles-tecnical fiber-sheet (1) (3)	yes	Polyethylene Terephthalate	Melinar, Eastpack, Clearfuf, ExtruPet	0.84	5-6	10	160-180	3	<0.003	<0.2
PET injection molding (1) (3)	yes	Polyethylene Terephthalate	Rynite	0.85	3-4	10	130-140	2	<0.02	<0.2
PET PCR (1) (2) (3) (8)	yes	Recycled PET - Post consumer regrind	Rilat	0.35	4-5	10	130-140	3	<0.008	<0.3
PETCG (4) (6)	yes	Polyethylene Terephthalate Glycol	Eastar, Axl	0.74	4-5		65	3.5	<0.01	<0.1
PI	yes	PolyAmide	Vespele	0.70	2-3		120	2.2	<0.02	-
PMMA - Acrylic	yes	Polymethyl Methacrylate	Acrylic, Lucril	0.65	3-4		80	3	<0.02	<0.3
POM - Acetalic - (copolymer)	yes	Polyoxyl Methylene	Delrin, Hostaform	0.85	2-3		90-100	2	-	<0.15
POM - Acetalic - (homopolymer)	NO	Polyoxyl Methylene	Delrin, Hostaform	0.85	1		90-100	2	-	<0.1
PP (7)	NO	PolyPropilene	Moplen, Novolen	0.50	1		80-90	2	-	-
PP talk 40%	yes	PolyPropilene		0.65	2-3		90	2	<0.02	-
PPO (3)	yes	Polyphenylene Oxide	Noryl	0.55	2	8	100-110	2	<0.01	-
PPS (1) (3)	yes	Polyphenylene Sulfide	Ryton, Fortron	0.80	2-3	12	130-140	2	<0.01	<0.03
PS (7)	NO	PolyStyrene		0.55	1		80	1.7	<0.02	<0.05
PSU (3)	yes	PolySulfone		0.80	3-4	8	120-130	2	<0.05	<0.1
PTT (3)	yes	Poly Trimethylene Terephthalate	Corterra	0.80	5-6	10	130-150	3	<0.005	<0.2
PUR (5)	yes	Polyurethane		0.75	2-3		70-90	2	<0.02	-
PVC (7)	NO	Polyvinyl Chloride		0.85	1		70-90	1.4	<0.02	-
SAN	yes	Styrene AcryloNitrile	Lustran	0.55	2-3		80	2	<0.02	<0.1
SB	yes	Styrene Butadiene	K-resin	0.60	1-2		80	2	<0.02	-
TPE (5)	yes	Thermoplastic Elastomer	Santoprene	0.65	2-3		110	2.2	<0.05	<0.3
TPE (5)	yes	Thermoplastic Elastomer	Hytrel	0.65	2-3		80	2.2	<0.1	-
TPO (POE) (5)	yes	Olefinic Elastomer		0.55	3		70-90	2	-	-
TPU (5)	yes	Thermoplastic Urethane	Desmopan	0.75	2-3	6	70-100	2	<0.02	-



Technical data

	Unit of misure	Capacity dm ³	A	B	C	F	G	L	M
H 15	mm	15	437	538	140	50	500	678	525
H 30	mm	30	437	686	140	50	500	826	525
H 50	mm	50	437	906	140	50	500	1046	525
H 75	mm	75	516	916	140	50	500	1056	525
H 100	mm	100	516	1126	140	50	500	1266	525
H 150	mm	150	597	1266	140	50	730	1406	525
H 200	mm	200	597	1556	140	50	730	1696	525
H 300	mm	300	832	1735	180	89	730	1915	525
H 400	mm	400	832	1985	-	89	2250	-	915
H 600	mm	600	992	2053	-	89	2250	-	915
H 800	mm	800	992	2453	-	89	2250	-	915
H 1200	mm	1200	1060	3123	-	125	2390	-	1060
H 1500	mm	1500	1060	3323	-	125	2390	-	1060
H 2000	mm	2000	1240	3295	-	150	1310	-	-
H 2500	mm	2500	1240	3795	-	150	1310	-	-
H 3000	mm	3000	1450	3910	-	200	1510	-	-
H 3500	mm	3500	1450	4310	-	200	1510	-	-
H 4000	mm	4000	1550	3922	-	200	1670	-	-
H 4500	mm	4500	1550	4172	-	200	1670	-	-
H 5000	mm	5000	1700	4032	-	200	1820	-	-
H 5500	mm	5500	1700	4282	-	200	1820	-	-
H 6000	mm	6000	1850	4140	-	200	1970	-	-
H 7000	mm	7000	1850	4540	-	200	1970	-	-
H 8000	mm	8000	1850	5010	-	200	1970	-	-
H 9000	mm	9000	2000	4950	-	250	2120	-	-
H 10000	mm	10000	2000	5546	-	250	2120	-	-
H 12000	mm	12000	2200	5670	-	300	2120	-	-
H 15000	mm	14000	2200	6170	-	300	2120	-	-



AQmeter allows measuring the in-line moisture of polymers.

It can be installed on the inlet of a drying hopper to detect the moisture of the polymer to be dried and consequently provide the value to the resin dryer in order to parameterize the process.

When installed on the outlet of the drying hopper or on the inlet of the processing machine, it detects the residual moisture of the processed material in real time.

TECHNICAL CHARACTERISTICS

- It allows a continuous monitoring of moisture so as to grant quality in the process;
- It optimizes the drying process, saving energy as a result;
- Avoid material degradation caused by over-drying of the polymer;
- It features a database of materials and the possibility of adding customizable recipes;
- Automatic calibration depending on the selected material;
- Settable maximum- and minimum-alarm thresholds;
- 4" colour touchscreen operator panel.

ACCESSORIES:

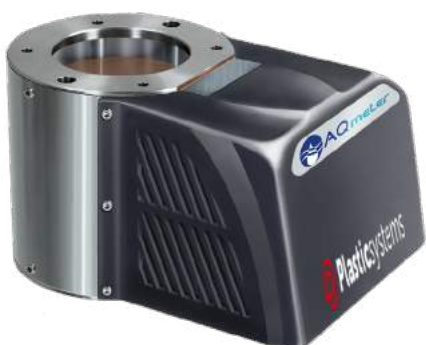
- Proportioning valve PVN with settable percentages.
- Sound alarm.
- Pyrex mini-hoppers for immediate installation on a machine.

ADDED VALUE:

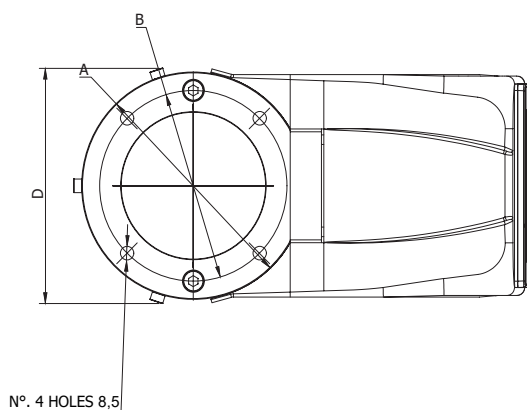
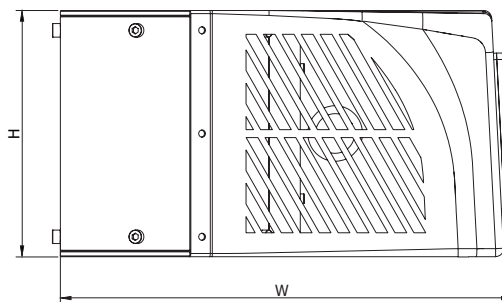
- EASY TO INSTALL.
- MEASUREMENT AND TRACEABILITY OF RESIDUAL MOISTURE OF THE POLYMER BEFORE AND AFTER THE PROCESS.



Standalone version with touchscreen



Version to be interfaced with the resin dryer control unit



Technical data

	Unit of measure	AQmeter 100	AQmeter 200
Measuring range	ppM	da 10 fino a 1200 (*)	da 10 fino a 1200 (*)
Resolution	ppM	1	1
Accuracy	ppM	<7	<7
Acquisition time	s	0.25	0.25
Temperature range	°C	20 - 200	20 - 200
Interfaces		analogica: 4-20 mA digitale: Modbus	analogica: 4-20 mA digitale: Modbus
Digital Input		1 (comando hold)	1 (comando hold)
Diameter of inner pipe	mm	96 (**)	194 (***)
Centre-to-centre (A)	mm	120	220
Diameter of outer pipe (B)	mm	143	243
Dimensions WxDxH	mm	284x147x155	400x250x155
Recipes		30 materiali preimpostati e fino a 6 ricette personalizzabili	30 materiali preimpostati e fino a 6 ricette personalizzabili
Material		qualsiasi materiale igroscopico (escluso il carbon black)	qualsiasi materiale igroscopico (escluso il carbon black)
Power supply	Hz	24 Vdc	24 Vdc

(*) variabile depending on the type of product (different ranges are possible)

(**) standard application for plastic pellets

(***) application for flakes/recycled

The mould dehumidifiers DSH represent the most innovative solution for removing the condensate on moulds during injection and blowing moulding processes.

The air is dehumidified by means of a rotor that ensures a dew point of the air of up to -10°C and airflow rates from 800 to 3000 m^3/h . These machines can be applied to one or more processing machines.

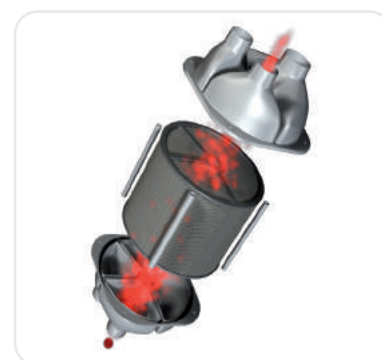
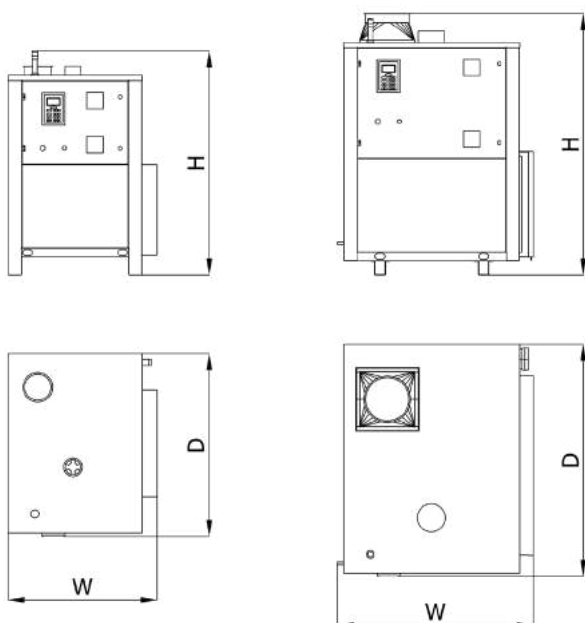


TECHNICAL CHARACTERISTICS

- A microprocessor control unit allows managing the operation of the machine, maintaining a constant dew point and adjusting PID terms of regeneration.
- A panel filter, that can be easily removed and cleaned, ensures air filtration.
- The air precoolers with heat exchanger use low-temperature water: $7-10^{\circ}\text{C}$. The condensed water is discharged from a pump with a built-in float.
- A high-efficiency fan sends air to a high-efficiency absorbent rotor which ensures a stable process even in tropical climatic conditions with temperatures of up to 45°C and humidity of up to 90%.
- To reduce the temperature of the air flowing out of the circuit, it is possible to install an aftercooler.
- RS 485 Modbus interface.

ADDED VALUE:

- It increases productivity by reducing cycle time.
- Constant process in any climatic condition.
- Absence of production rejects caused by moisture in the mould.
- It eliminates the risks of mould corrosion and subsequent maintenance.



Rotor

	Unit of mea- sure	DSH800.1C	DSH800.1T	DSH1000.1C	DSH1000.1T	DSH1200.1C	DSH1200.1T	DSH1800.1C	DSH1800.1T	DSH2400.1C	DSH2400.1T	DSH3000.1C	DSH3000.1T
Max process airflow	m³/h	800	800	1000	1000	1200	1200	1800	1800	2400	2400	3000	3000
Process temperature	°C	25											
Dew point	°C	-10											
Static pressure	Pa	2000											
Noise level	dB(A)	<80											
Process-fan power	kW	2.2						3					
Regeneration-fan power	kW	/									1.1		
Regeneration-heating power	kW	15						22.5					
Total power	kW	17.9				19		26.5		27.2			
Cooling water	l/min.	41.6	57	53	77	70	126	105	175	114	208	132	244
Water connection	mm	1" F (BSP)				2" F (BSP)							
Air-pipe diameter	mm	150				250				250			
Regeneration-outlet diameter	mm	101.6				150				150			
Cooling power	kW	11.6	15.8	15.2	20.5	20	35.6	29.6	49.5	32	59	37	68
Cooling-water temperature	°C	7-11											
Voltage/Frequency	V/Hz	400/50-60											
Dimensions WxDxH	mm	984x1189x1646				1129x1349x1433							
Weight	kg	450				500				550			

Continental T=33 °C Dp=18 °C Wb=22 °C.

Tropical T=40 °C Dp=25 °C Wb=29 °C.

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The crystallizers of the CRN series have been designed to process PET in amorphous granules and regrind of bottles, etc.

There are 9 models with capacities ranging from 300 to 800 dm³.

TECHNICAL CHARACTERISTICS

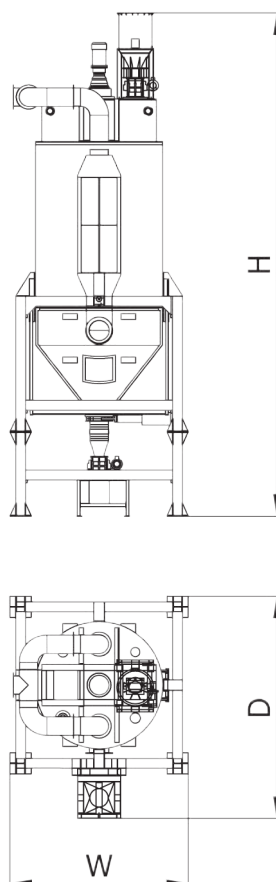
- Siemens PLC control unit and touch screen operator interface.
- Stainless steel hopper equipped with a vertical mixing system. Operated by epicycloidal gearmotors with a low number of revolutions.
- High-efficiency sound-proofed fan.
- Electrical heating chamber or heat exchanger.
- Cyclone installed on the return pipe of the process air.

ACCESSORIES:

- Rotary valves for loading and unloading material.
- Pneumatic feeding and extraction system.
- Oil-condensation system.

ADDED VALUE:

- Uniform crystallization of the polymer without any degradation.
- Purification of the oils contained in the regrind material.
- Indispensable its application before extrusion processes on single-screw and bi-screw extruders. It makes the process stable and prevents the loss of IV.
- The perfect choice to restore the values of crystallinity of materials after granulation processes..



Technical data

	Unit of measure	CRN50		CRN300		CRN600		CRN1000		CRN1500		CRN2000		CRN3000		CRN4000		CRN7000	
Type/Shape of PET		GR	SC	GR	SC	GR	SC	GR	SC	GR	SC	GR	SC	GR	SC	GR	SC	GR	SC
Throughput	kg/h	25	15	125	80	250	160	400	270	600	400	800	550	1200	800	1600	1000	2800	1800
Airflow rate	m ³ /h	60		300		600		1000		1500		1500		2500		3200		5600	
Mixing shaft rotation	rpm	2.5		2.5		2.5		2.5		1.5		1.5		1.5		1.5		1.5	
Static pressure Δp	mbar (20°C)	60		60		60		100		100		100		140		140		140	
Diameter of pipes	mm	50		89		89		200		200		200		250		250		300	
Heating power	kW	3.5		14.4		14.4		27		54		54		81		108		162	
Gearmotor power	kW	0.25		1.5		1.5		1.5		2.2		2.2		4		4		7.5	
Installed power	kW	4.5		23		23		35.1		72.3		72.3		119		146		200	
Dimensions	H	1995		3531		4229		4900		5200		5550		5800		6321		7554	
	D	1210		968		968		1860		2144		2144		2800		2800		2800	
	W	855		968		968		1317		1570		1570		2120		2120		2200	

GR = Granules

SC = Flake



The DM series volumetric feeders are designed for the precise and automatic dosing of masters, additives and regrind.

The synergy between design, applied technology and quality of materials ensures a high flexibility of volumetric feeders, that can therefore be used with injection moulding machines, blow moulding machines and extruders.

TECHNICAL DATA:

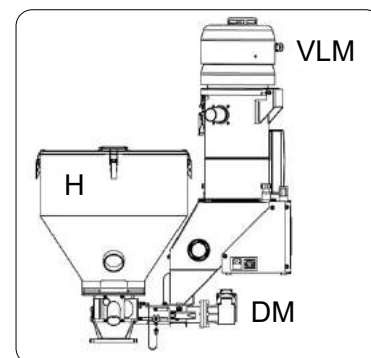
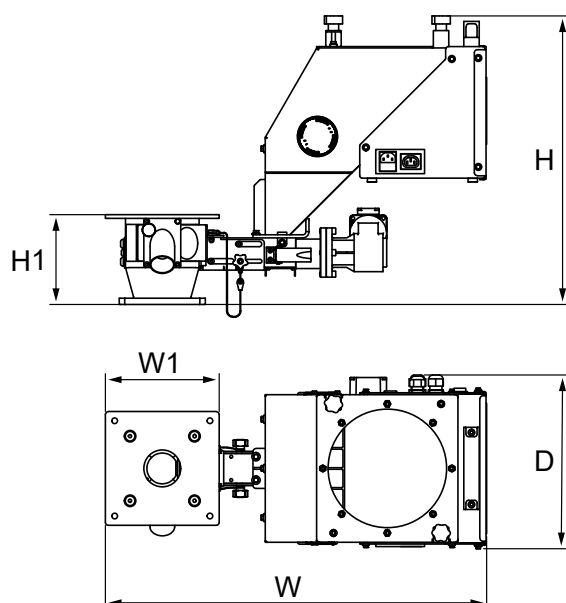
- Brushless motor drive.
- Control panel and LCD display installed directly on the feeder or removable (optional).
- Self-learning calibration and adjustment simply by opening the manually sliding basic module.
- Bottom gate for material unloading.
- Central flanged base, to install up to 2 units.
- Complete with static-type mixer.
- RS 485 Modbus interface.

ADDED VALUE:

- 50-Recipe storage.
- Fast colour change with quick cleaning, thanks to the unit's complete accessibility.
- Wide range of stainless steel dosing screws and easily and quickly exchangeable cylinders.

ACCESSORIES:

- Painted stainless steel central hopper.
- Lack of material alarm with capacitive sensor and buzzer.
- Removable controller kit.
- Bladed mixer body.



	DM5	DM10
Compatible hoppers	H2MC H5MC H15MC	H5MC H15MC H30MC H50MC
Compatible receivers	VENTURI VLM2 VLM4	VENTURI VLM2 VLM4 VLM8

Technical Data

	Screws D x P	Unit of measure	DM5	DM10
Minimum - Maximum output [**]	8x8	Kg/h	0,06-0,84	0,06-0,84
	12x8		0,24-2,8	0,24-2,8
	16x10		0,5-6	0,5-6
	20x12		1-11,7	1-11,7
	20x20		1,4-17,5	1,4-17,5
	25x20		-	2,2-26,5
	30x20		-	3-40
Gear ratio [*]			1:38	1:38
Hopper volume		dm ³	10	14
Dosing unit motor power		kW	0,12	0,12
Motor revolutions		r.p.m.	3000	3000
Mixer motor power		kW	-	0,2
Voltage/Frequency		V/Hz	230/50-60	230/50-60
Noise level		dB (A)	<80	<80
Dimensions WxDxH		mm	620x283x470 146-185	696x283x582 234-140
Weight		kg	27	31

[*] Possible transmission ratios 1:75 - 1:24 - 1:15.

[**] Values obtained with a cylindrical master Ø2x2,5, psa (bulk density) 0.75 kg/dm³.



The gravimetric feeders of the DG series have been designed to automatically and accurately dose master and additives.

The synergy between design, applied technology and material quality results in high flexibility. These feeders can be installed on injection moulding machines, blow-moulding machines and extruders.

Two versions available:

- base version with manual loading of material.
- advanced version with automatic loading of material by means of a Venturi feeder.

TECHNICAL CHARACTERISTICS

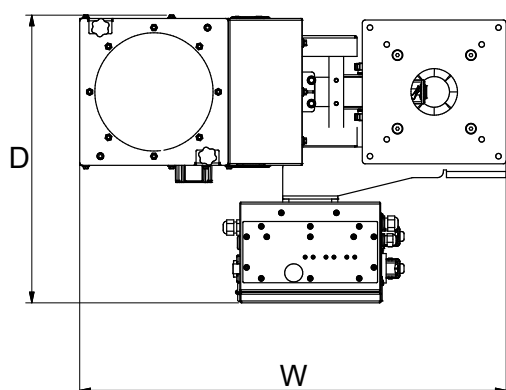
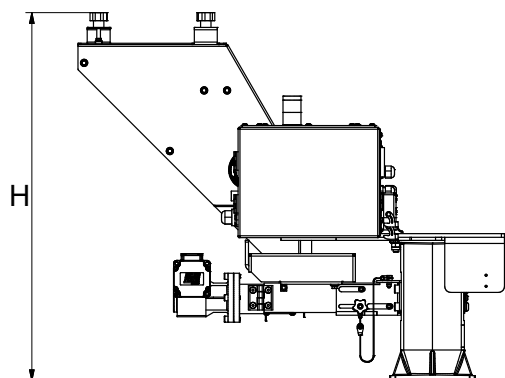
- Inclined-axis feeder.
- Brushless motor.
- Remote 4" color touchscreen operator panel.
- Load cells.
- Lower slide gate to discharge material.
- Central flanged base to install up to 2 units.
- Complete with static mixer.
- ModBus interface.
- ETHERNET connector.
- USB connection.
- Connection to PC.

ACCESSORIES:

- Mixer.
- Venturi feeder.

ADDED VALUE:

- USB port to download recipes and weigh logs into an external storage device.
- Fast colour change and cleaning thanks to a complete accessibility to the unit.
- A wide range of dosing screws and cylinders that can be easily and quickly interchanged.
- Calibration without waste of material.
- Auto-tuning of the material to be dosed.
- Lack of material detected by load cells and signalled by a specific warning device.



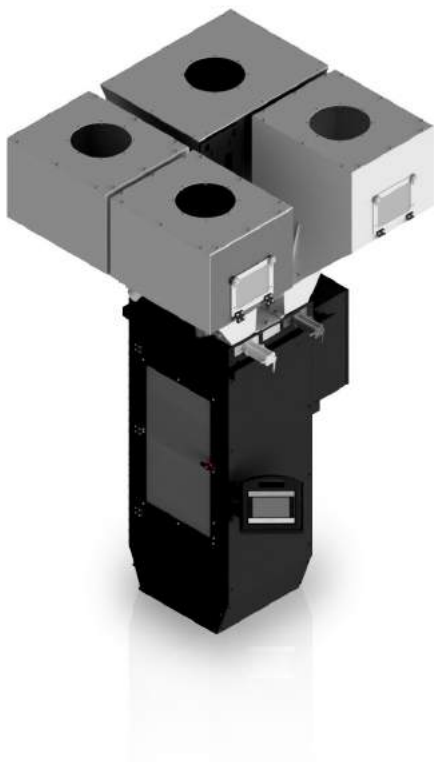
	Cocle D x P	Unit of measure	DG10
Minimum-maximum throughput [kg/h]	8x8	1:38	0.06-0.84**
	12x8	1:38	0.24-2.8*
	16x10	1:38	0.5-6*
	20x20	1:38	1.4-17.5*
	25x20	1:38	2.2-26.5
Maximum no. of materials		N°	2
Hopper volume		dm ³	10
Feeder motor power		kW	0.20
Motor speed		r.p.m.	3000
Mixer motor power (opt.)		kW	0.2
Mixing chamber capacity (opt.)		dm ³	3
Voltage/Frequency		V/Hz	230/50-60
Dimensions WxDxH		mm	601x470x697
Weight		kg	18

1) Consider additional 150mm necessary for the calibration procedure.

Throughput values specified in the table have been obtained with:

[*] masterbatch granules measuring 2.5x3 mm, psa (bulk density) 0,784 kg/dm³

[**] masterbatch microgranules measuring 1.12x1.01mm, psa (bulk density) 0,601 kg/dm³



TECHNICAL DATA

- Nine models that can deal with production batches from 50 to 3000 kg/h, in various configurations, able to measure out up to 8 different materials.
- Siemens S7 PLC control
- Mixer level control with capacitive sensor.
- Setup and report operations can be downloaded to USB devices.
- In case of shock or vibration, any load alteration is detected and overlooked.
- Operator interface with colour touch screen.
- Stainless steel hoppers with quick unloading gate.

ACCESSORIES:

- Fixing base.
- Material storage tank for floor installation.
- Capacitive sensors for hopper level control.

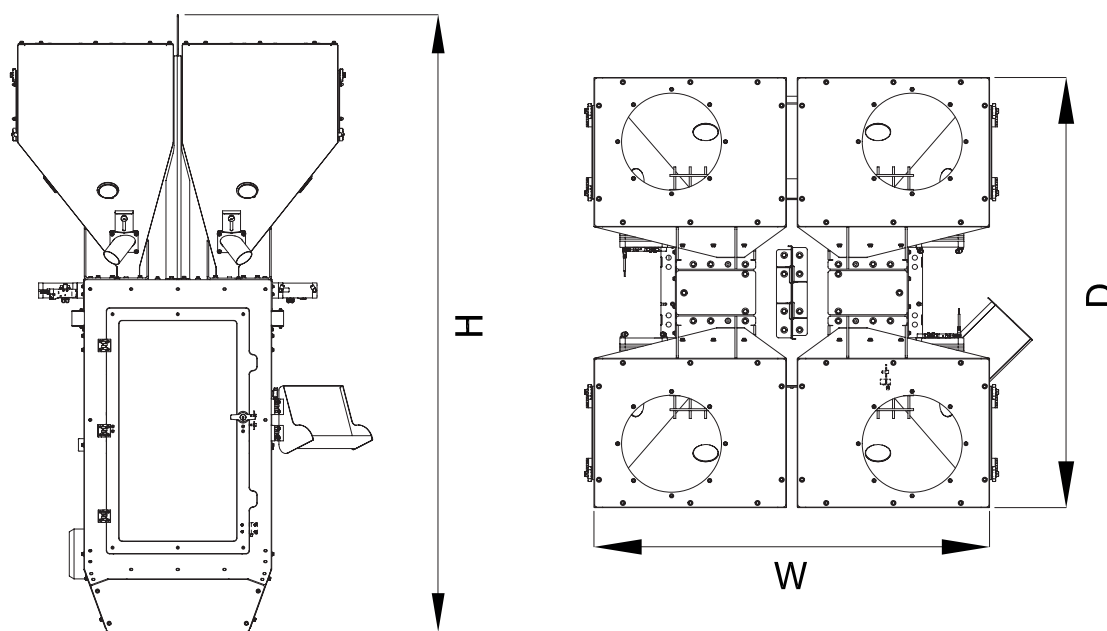
Gravimetric feeders have a fundamental role in any plastic material processing activities, as they weigh and adjust the exact percentage of each component before they enter the transformation process.

There are 9 basic models, in several configurations of 2 to 8 components. The working cycle is completely automatic. The Siemens S7 PLC with touch screen allows the operator to set the dosing percentages easily. Gravimetric feeders are easy to use, and can be installed on the floor or above the processing machine.

Suitable pneumatic gates make it possible to measure doses of as little as 0.3%. Each dosed material is weighed in the weighing hopper; once the total weight has been measured out, the batch is unloaded into the weighed mixer that mixes the various materials together.

ADDED VALUE:

- Constantly monitored precision.
- Automatic adjustment in case of variations in material density.
- Automatic re-adjustment.
- Direct settings of material percentages.
- Precise and reliable control ensuring a high precision of 0.1%.
- Mixers that ensure an accurate mixing action.



Technical data

	Unit of measure	DGB 50	DGB 100	DGB 200	DGB 500	DGB 800	DGB 1200	DGB 1500	DGB 2000	DGB 3000
Maximum throughput	Kg/h	50	150	200	500	800	1200	1500	2000	3000
Maximum components	n°	2-4	2-6				2-8			
Dosing range	%	0.5-100			0.3-100					
Batch	Kg	0.5	2	5	8	12	15	20	30	
Installed power	kW	0.5	0.55	1.2				2.1		
Voltage/Frequency	V/Hz	400/50-60								
Dimensions WxDxH	mm	520x565x830	640x780x1085	640x780x1085	870x950x1615	870x1005x1615	1075x1105x1980	1275x1355x1990	1280x1360x2390	1530x1600x3500
Weight	kg	70	180	200	240	245	340	450	580	840



In many manufacturing processes of plastic materials, vibrating-channel feeders play a pivotal role: they weigh and adjust the exact percentage of each component flowing into the process. The vibrating-channel feeders of the DVM series have been designed to automatically and accurately dose master, additives, plastic materials in granulated and flake form used with single-screw and bi-screw extruders.

The feeder consists of:

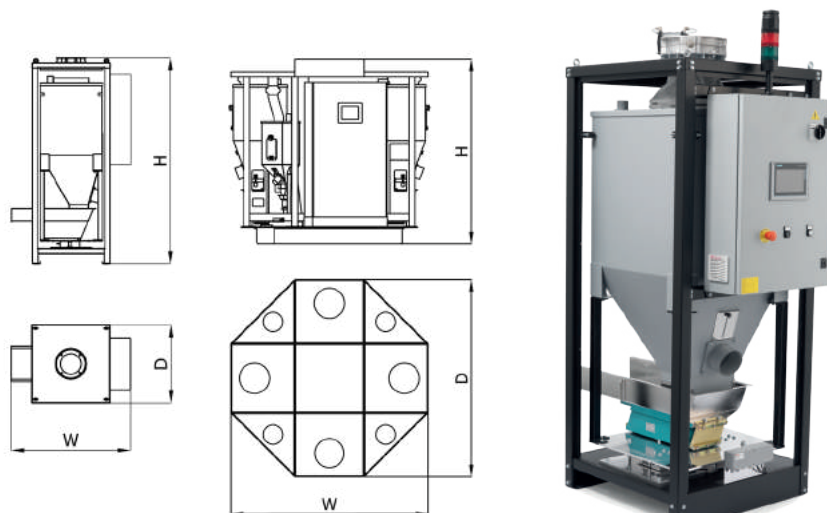
- a solid and compact frame that permits installing from 2 to 8 dosing stations;
- stations installed on load cells with vibrating channels ranging from 50mm to 300mm in width ensuring a high-precision dosing;
- pneumatic butterfly and knife slide gates ranging from 100mm to 300mm in diameter;
- S7 300 Siemens PLC with a dedicated weighing board and a colour touch screen operator interface.



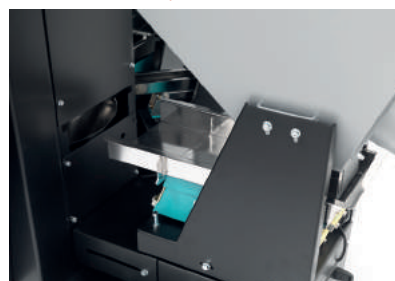
Feeder with 5 components

ADDED VALUE:

- Fast colour change and cleaning thanks to a complete accessibility to the unit.
- Custom-made weighing system.
- Ideal for installations on single-screw and bi-screw extruders.
- The weight-in-loss system shows the composition of the recipe and the actual consumption.
- Magnetic grid on the outlet of each station.
- "Profibus" or "Profinet" interface.



Feeder with 1 component



Technical Data

VIBRATING CHANNELS FOR DVM 1-8				
Channel Width (mm)	Hoppers Volume (dm³)	Vibrator Power (W)	Granule capacity (kg/h)	Range Scale (kg/h)
50	35	25 W	3-70	-
100	35	50 W	10-200	-
150	160	200 W	30-800	30-200
250	160	200 W	100-2000	30-1000
300	160	500 W	300-4000	200-2500

SCREW				
Auger type (DxP) mm	Hoppers Volume (dm³)	Auger Power	Transmission	Granule/Microgranule Volume (kg/h)
12 x 8	35	120	1/38	0,2-0,8
16 x 10	35	120	1/24	1-15
30 x 20	80	120	1/38	3-40
30 x 20	80	120	1/15	8-80
50 x 50	160	180	1/15	50-500
80 x 80	160	180	1/24	120-1200



The mixers of the M series were designed to mix granules of plastic material such as master, additives and regrind.

These mixers, with capacities ranging from 120 to 330 litres, can be easily placed beside machines thanks to their small dimensions and their wheels with brake ensure an easy handling.

A hinged cover on top of the machine makes it easy to manually load material.

A probe allows suctioning the material that has been mixed.

TECHNICAL CHARACTERISTICS

- Upper loading cover with safety sensor.
- Lower discharge slide gate with safety sensor.
- "Fountain-type" mixing system with a mixing screw driven by a three-phase gearmotor.
- Microprocessor control unit for manual operation or with programmable timer.
- Probe duct to suction the blend.

Technical data

Technical Data	Unità di misura	M1	M2	M3
Capacity	dm ³	120	200	330
Noise Level	dB(A)	<80		
Total Power	KW	0.37		
Dimensions WxDxH	mm	600x600x900	700x700x1050	800x800x1200
Weight	kg	80	100	130

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The vertical mixers of the MVP series are designed to mix large quantities of plastic granules. The machine has a solid painted-steel structure with 4 supporting legs.

Its mixing screw is driven by a 4-pole three-phase electric motor with V-belt drive. The material is loaded through a special feeding hopper equipped with a grid acting as protection and support base for bags.

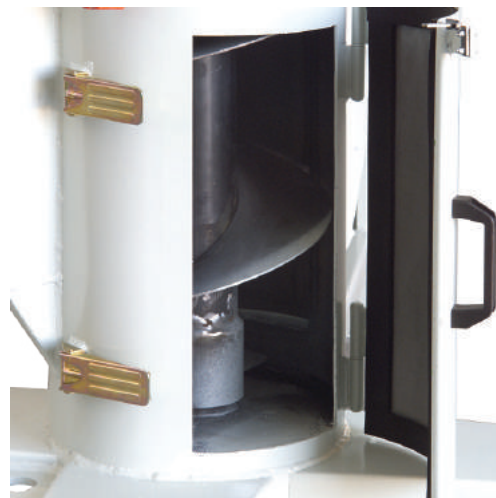
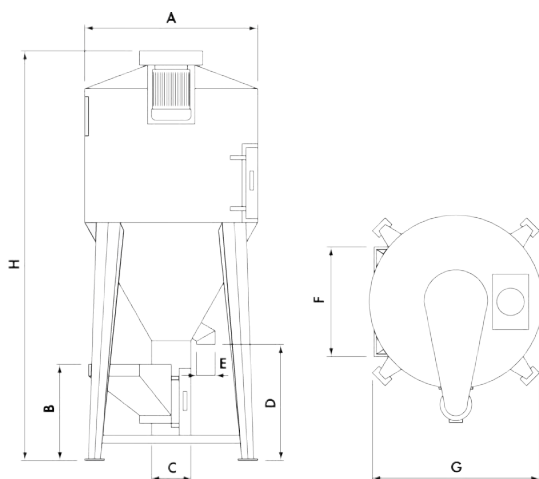
Other standard components are: protective guards, inspection doors, spyholes, material outlets. The range features dimensions from 500 to 20000 litres.

TECHNICAL CHARACTERISTICS

- Feeding hopper with protection grid.
- Mixing screw for a "fountain-type" mixing.
- Outlet pipe with butterfly valve.
- Lower door for easy cleaning and emptying.
- Spyhole for checking material level.
- Inspection door on the cylinder (for bigger models only).
- Switchboard with timer.

ACCESSORIES:

- Paddle level sensor to control the quantity loaded.
- Connection for pneumatic suction nozzle.
- Flange for installing a screw/cyclone.



Technical data

	Unit of measure	MVP 500	MVP 1000	MVP 1800	MVP 2500	MVP 3500	MVP 5000	MVP 8000	MVP 10000	MVP 14000	MVP 16000	MVP 20000
Capacity	dm ³	500	1000	1800	2500	3500	5000	8000	10000	14000	16000	20000
Noise level	dB(A)	<80										
Installed power	kW	2.2	4	5.5		7.5			11		15	18.5
Installed power	Kg	220	300	460	490	610	800	1070	1200	1350	1500	2200

	Unit of measure	MVP 500	MVP 1000	MVP 1800	MVP 2500	MVP 3500	MVP 5000	MVP 8000	MVP 10000	MVP 14000	MVP 16000	MVP 20000
A	mm	850	1060	1400	1500	1600	1900	2350		2450		
B	mm	600	650	700			750				950	
C	mm	200	280	320							400	
D	mm	800									900	
E	mm	150	200	230								
F	mm	650	750	950			1000				1100	
G	mm	1150	1250	1400	1450	1500	1800	1950		2150		
H	mm	2550	3050	3200	3500	3900	4200	4600	5100	5700	6200	7100



Detail of a grid for big-bags

The storage containers of the C series are completely made of stainless steel and come in different dimensions in order to stock material in granulated form just next to the machine or in centralized systems.

Standard dimensions range from 100 to 1700 litres. All models features wheels with brake, discharge slide gate, pipe for inserting a suction probe, grid for big-bags, cover.

Optional: flange for connecting an automatic feeder, material-level sensors, multi-way suction valves and metal grids for big-bags.



Technical data

	Unit of mesaure	C100	C200	C350	C800	C1700
Hopper capacity	dm ³	100	200	350	800	1700
Dimensions WxDxH	mm	580x580x1000	700x650x1200	820x800x1250	980x960x1750	1210x1210x2050
Weight	kg	24	30	40	60	200

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The new low-speed granulators of the G series are the ideal solution in injection and blow-moulding. There are three models with a rotor 200mm in diameter and blades measuring 150-300-450 mm in length.

Its sound-proofed hopper and appropriate protections make it a safe and reliable machine.

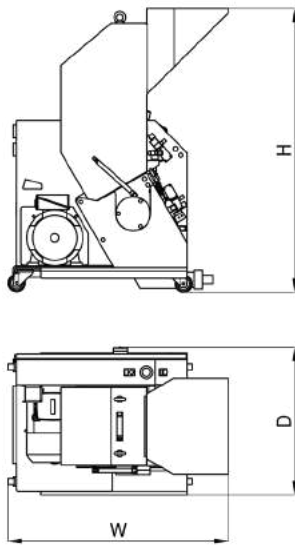


TECHNICAL CHARACTERISTICS

- Rotor made of high-quality steel.
- Fixed and movable blades with a scissor cutting action.
- High-efficiency motors and belt drive with a low number of revolutions and limited powers ensure high throughputs.
- Regrind material is extracted by means of a pneumatic feeder or an extraction screw with collection tank.

ADDED VALUE:

- **QUALITY**
Regrind material with a low quantity of dust;
- **LOW NOISE**
A solid rotor and a sound-proofed hopper ensure noise levels below 80 dB(A).
- **EASY ACCESS**
No need of tools to access the cutting chamber and its self-dumping hopper with a damped system allows cleaning the granulator in few minutes.
- **SAFETY**
Operator's safety comes first in compliance with standards UNI EN ISO 12100 and 13849.



Version with extraction screw



Gas shock absorber



Two safety switches



Safety control unit



Rotor with protection

	Unit of mesaure	G20/15	G20/30	G20/45
Rotor speed	rpm	200	200	200
Rotating blades	n°	3	3	2/3*
Fixed blades	n°	2	2	2
Rotor diameter	mm	200	200	200
Rotor width	mm	150	300	450
Screen holes	mm	4-5-6-8	4-5-6-8	4-5-6-8
Feed throat	mm	320x150	320x300	320x450
Collection tank capacity	dm ³	5.5	11	15
Cutting chamber opening	mm	230x150	230x300	230x450
Noise level	dB(A)	<80	<80	<80
Motor power	kW	1.5	3	4
Voltage/Frequency	V/Hz	400/3/50-60	400/3/50-60	400/3/50-60
Production	kg/h	40	60	80
Dimensions WxDxH	mm	1030x540x1330	1030x690x1330	1030x840x1330
Weight	kg	240	300	380

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Special



The loss-in-weight feeders of the BD series are suitable for dosing non-free-flowing and hygroscopic powders.

The product enters into the hopper manually or through a butterfly valve. A built-in mixer helps to feed the bi-screw so as to avoid problems during the downward movement of the material.

A weighing system with load cell measures any weight variation in real time.

The required throughput is obtained by changing the speed of the screw which is driven by a motor with inverter.

A Siemens PLC controls from 1 to 8 dosing stations. The operator interface has a 5.7" Siemens touch screen.

Also available: Profibus or Ethernet interface.

TECHNICAL CHARACTERISTICS:

- Stainless steel structure.
- Driven by a motor with inverter.
- Control board with a S7 200 Siemens PLC.
- Gearmotor-driven mixer.
- Load cell installed in a protection box.
- Adjustable supporting feet.
- Complete with static mixer.

ADDED VALUE:

- +/- 1% precision on the weight of dosed material.
- Real-time control of the throughput.
- Easy setting of parameters.
- Easy cleaning when changing colour.
- Diagnostics, counters and data tracking.



Technical data

	Unit of mesaure	BD20	BD30	BD40
Minimum-maximum throughput	kg/h	1-45	4-150	40-450
Hopper volume	l	6-30	20-60	50-200
Dosing unit motor power	kW	0.18	0.37	0.37-0.55
Voltage/Frequency	V/Hz	400/50-60		
Noise level	dB(A)	<80	<80	<80

The storage silos of the CQ series are completely made of stainless steel and come in different dimensions in order to stock material in granulated form.

A modular structure allows having various capacities.

Thanks to a solid supporting base, it is possible to overlay up to 6 ferrules. Standard dimensions range from 1000 to 14000 litres.

Also available: flange for connecting an automatic feeder, material-level sensors, multi-way suction valves and metal grids for big-bags.

Their square shape allows using the entire space available. This type of silos are designed for an indoor installation and can't be installed outdoors.



Technical data

	Unit of measure		CQ1000	CQ2000	CQ4000	CQ6000	CQ8000	CQ10000	CQ12000	CQ14000
Capacity	dm ³		1000	2000	4000	6000	8000	10000	12000	14000
Dimensions	mm	W	1540	1910	1910	1910	1910	1910	1910	1910
		D	1540	1910	1910	1910	1910	1910	1910	1910
		H	1300	1420	2013	2680	4000	4600	5200	5800
Weight	kg		180	280	380	500	740	860	980	1100

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The loss-in-weight feeders of the EGR series are suitable for dosing granules and regrinds. The product enters into the hopper manually or through a butterfly valve.

A weighing system with load cell measures any weight variation in real time.

The required throughput is obtained by changing the speed of the screw which is driven by a motor with inverter.

A Siemens PLC controls from 1 to 8 dosing stations. The operator interface has a 5.7" Siemens touch screen.

Also available: Profibus or Ethernet interface.

TECHNICAL CHARACTERISTICS:

- Stainless steel structure.
- Driven by a motor with inverter.
- Control board with a S7 200 Siemens PLC.
- Load cell installed in a protection box.
- Adjustable supporting feet.

ADDED VALUE:

- +/- 1% precision on the weight of dosed material.
- Real-time control of the throughput.
- Easy setting of parameters.
- Easy cleaning when changing colour.
- Diagnostics, counters and data tracking.



Technical data

	Unit of measure	EGR30	EGR60	EGR80	EGR100
Minimum-maximum throughput	kg/h	5-60	35-350	60-650	200-3000
Hopper volume	l	40	100	150-200	150-300
Dosing unit motor power	kW	0.18	0.37	0.37-0.75	0.75-1.1
Voltage/Frequency	V/Hz	400/50-60			
Noise level	dB(A)	<80	<80	<80	<80



The crystallizers of the FB series are based on the principle of the vibrating fluid bed in which material is conveyed on a perforated surface and held in suspension by the airflow and vibrations of the surface.

The system is suitable for crystallizing and drying PET granules or flakes from the washing lines. The residence time is very short (less than 15').

Air heating can be done with electric heaters, natural-gas heaters, diathermic-oil heat exchangers or steam heat exchangers.

High-efficiency fan with variable airflow.

Part of the process air can be recycled for saving energy.

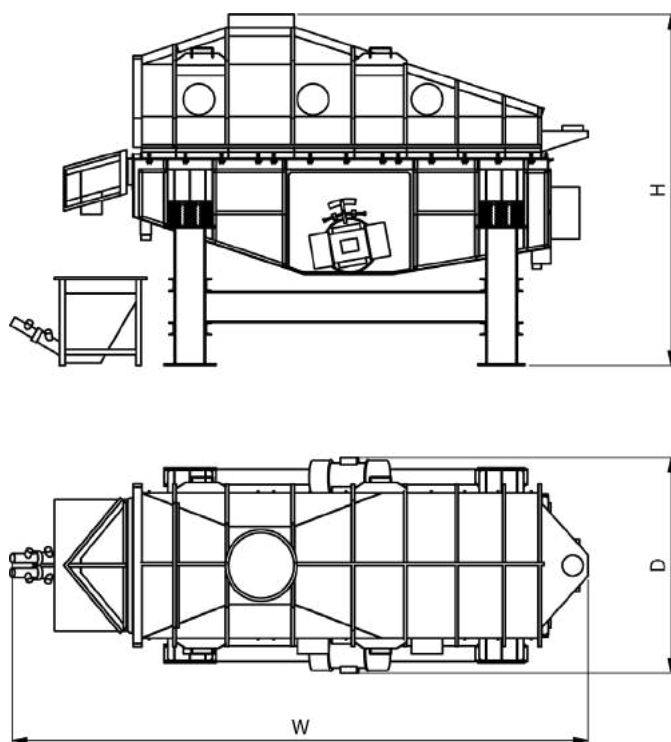
A Siemens PLC allows the operator to easily set and control each phase of the process.

TECHNICAL CHARACTERISTICS:

- Rotary valves for loading and unloading material.
- Pneumatic feeding and extraction system.
- Oil-condensation system.

ADDED VALUE:

- It dries and crystallizes the material in a short time: material is ready after 10 min.
- Dedusting of paper material, PE and dust thanks to its built-in self-cleaning filter.
- It increases the performance of the extrusion system.
- Low maintenance, easy to clean and manage.



Technical data

	Unit of measure	FB500	FB1000
Throughput	kg/h	500	1000
Airflow rate	m ³ /h	4000	8000
Process temperature	°C	70-150	70-150
Bed dimensions WxD	mm	2800x800	4000x1000
Fan power	kW	11	37
Heating power	kW	3	5.6
Rotary-valve power	kW	1.1+1.1	1.1+1.1
Total power	kW	70.2	126
Voltage/Frequency	V/Hz	400/50-60	400/50-60
Dimensions WxDxH	mm	3200x1500x2300	5100x2100x3300
Weight	kg	1000	2600

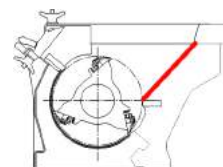


La serie dei granulatori 30 trova l'ideale applicazione nel soffiaggio (serie BM) e nell'estrusione (serie XT).

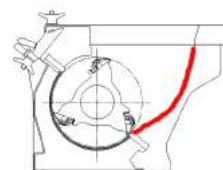
Sono disponibili quattro modelli con rotori di diametri di 260 mm.

Tutti i modelli sono completamente insonorizzati.

Serie XT: macchine dedicate al recupero di scarti di estrusione rigida o flessibile, per piccoli spurghi o stampati pesanti, adatta anche a ripassi di scarti già triturati.



Serie BM: macchine dedicate al recupero di scarti di soffiaggio: materozze, pezzi soffiati, parison in linea ad alte temperature. Macinazione di preforme e soffiati fuori linea. Adatte a scarti di stampati o termoformati voluminosi e leggeri.



CARATTERISTICHE TECNICHE:

- Camera di taglio completamente saldata realizzata in acciaio di alta qualità.
- Lame fisse e lame mobili con taglio a "V" che permette una concentrazione del taglio del materiale nella zona centrale del rotore.
- Viene fornita un'apposita dima per facilitare l'affilatura delle lame mobili.
- Motori ad alta efficienza e trasmissione a mezzo cinghia.
- Tutti i modelli dispongono di sistema di estrazione del macinato tramite ventilatore a ciclone.
- Quadro elettrico completo di amperometro per verificare l'assorbimento.

VALORE AGGIUNTO:

- **QUALITÀ**
Il macinato viene generato con bassa quantità di polvere.
- **BASSA RUMOROSITÀ**
La robustezza del rotore unitamente alla totale insonorizzazione consente di mantenere bassi livelli di rumorosità.
- **FACILE MANUTENZIONE**
Accesso alla camera di taglio semplice e veloce, la macchina dispone di un sistema con pompa oleodinamica per il ribaltamento della tramoggia.
- **SICUREZZA**
La macchina rispetta le normative vigenti in termini di sicurezza.

30 BM-SL/XT-SL series

www.plasticsystems.it



Impianto di aspirazione HS30 o HT40 a bordo macchina.



Dischi rotanti solidali al rotore e anelli di contenimento.



Configurazione di taglio a forbice.



Raffreddamento ad acqua della camera.



Cuscinetti a sfere applicati alla camera, fissati sulla circonferenza.



Lame e controlame regolabili a banco.



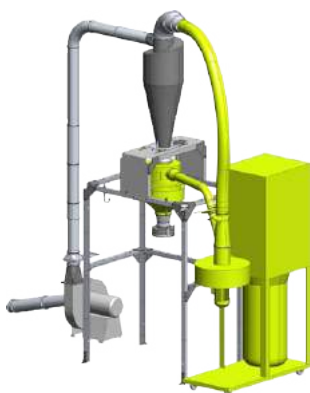
Movimentazione su ruote.



Accesso senza attrezzi alle principali parti di manutenzione.



Griglia con superficie pari al 50% del giro lame.



Sistema di separazione parti fini dal macinato DR24 e DR32.



Apertura tramoggia con cilindro a gas.



Camera di macinazione in antistatica.



Quadro elettrico integrato. Dispositivi e circuito sicurezze secondo normativa CE.

Calettatori fissaggio puleggia motrice e volano. Puleggia volano a disegno per elevata inerzia.

Dati tecnici

	Unità di misura	35-30 BM-SL 35-30 XT-SL*	50-30 BM-SL 50-30 XT-SL*
Bocca di alimentazione	mm	350x300	500x300
Diametro rotore	mm	260	260
Velocità rotore	giri/min	535	535
Lame rotanti	n°	3	3
Controlame fisse	n°	2	2
Foratura della griglia	mm	9	9
Potenza aspiratore HS30	kW	1,1	1,1
Potenza aspiratore HT40	kW	-	-
Potenza motore	kW	7,5	7,5
Potenza totale	kW	8,6	8,6
Voltaggio/Frequenza	V/Hz	400/50-60	400/50-60
Dimensioni WxDxH	mm	850x1420x1750	1000x1420x1750
Peso	kg	650	750
Produzione con la griglia indicata, circa	kg/h	150-220	200-320

* Con aspiratore a bordo macchina

	Unità di misura	HS30
Pressione	mm/H2O	100
Portata	m³/h	450
Motore	kW	1,1
Superf. filtro	m²	1
Tubo collegamento	Ø mm	100
Sacco filtro	-	VERTICALE

	Unità di misura	DR24*	DR32**
Potenza	kW	0,75	1,5
Capacità	m³/h	2000	2400

* Per BM/XT 35-30
** Per BM/XT 50-30



Thrust loading unit with tank

Thrust loading units are ideal for the pneumatic conveyance of material from a ground location to indoor and outdoor silos.

Hourly capacities range from 2000 to 14000 kg/h with a maximum horizontal distance of 100 meters and a maximum vertical distance of 20 meters.

Suitable for emptying 25kg bags, big bags, octabins.

For each type of container, we can provide:

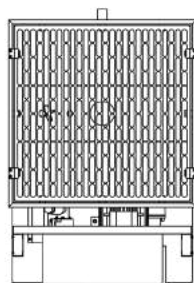
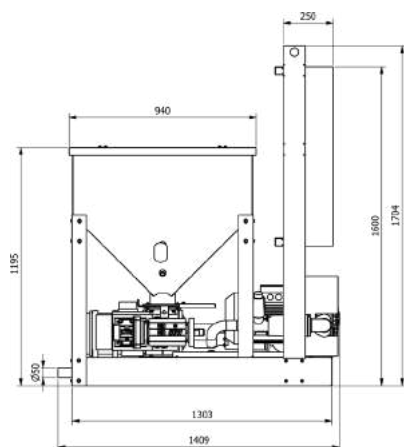
- tank for emptying bags;
- frame for emptying big bags;
- tilt table for octabins.



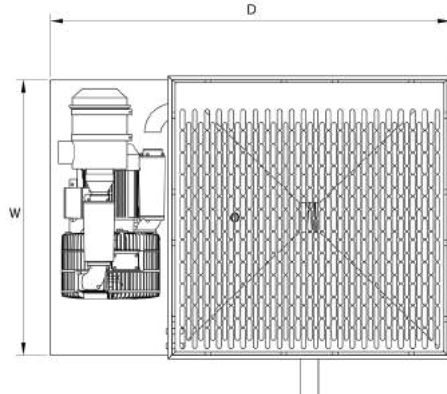
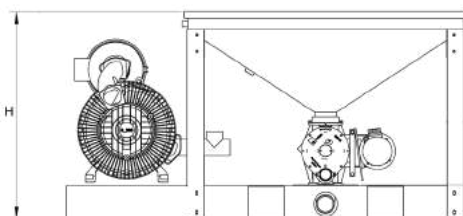
Thrust loading unit with Octabin station

ADDED VALUE:

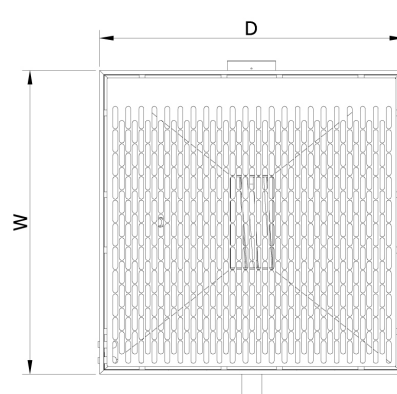
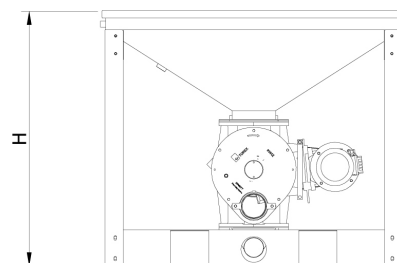
- • Possible reduction in the cost of raw material.
- • Space optimization.
- • Fast and safe storage of material in silos.
- • Fast installation.



GCS 5.5



GCS11 - GCS15



GCS20 - GCS45

Technical data

	Unit of mesaure	GCS 5.5	GCS 11	GCS 15	GCS 20	GCS 45
Blower power	kW	5.5	11	15	20	45
Model of rotary valve	mm	VPS 180	UPR 200	UPR 200	UPR 250	UPR 250
Rotary-valve power	kW	0.55	1.1	1.1	1.5	1.5
Maximum capacity	kg/h	900	2500	4000	6000	14000
Horizontal/vertical distance	m	30/10	30/10	30/10	40/15	40/20
Tank capacity	lt	400	400	400	2000	2000
Pipe diameter	mm	50	70	101.6	100	140
Position of blower		Integrata su telaio	Integrata su telaio	Integrata su telaio	Soffiante e vasca separate	Soffiante e vasca separate
Noise level	dB(A)	< 80	< 80	< 80	< 80	<80
Dimensions WxDxH	mm	940x1409x1704	1500x2183x1135	1500x2183x1135	1974x1974x2524	1974x1974x2524
Type of blower		Canali laterali	Canali laterali	Canali laterali	Aspi rotanti	Aspi rotanti

Values of hourly throughput with plastic granules (P.S.A. 0.80 kg/dm³)

Plastic Systems' belt conveyors are suitable to meet the multiple needs of collection, transport, and separation of moulded or blow-moulded pieces on injection and blow moulding machines. The NDS series is a double-bent belt conveyor having a lower flat part for the collection of pieces, an inclined part for the conveyance and an upper flat part used for separation.

The models are adjustable in height and inclination: it is possible to set the angle between the inclined part and the upper part as well as the lower part.

It is usually supplied with a PUR high-grip belt but a smooth belt with strips is also available. It is equipped with a blade separator.

Also available is the ND series, a fixed double-bent belt conveyor where the angle between the inclined part and the lower and upper parts is fixed.

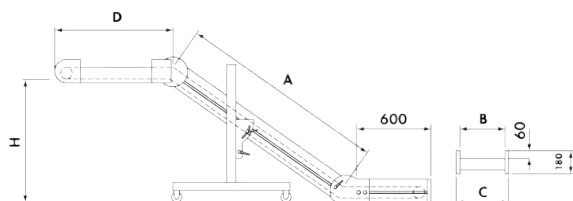


TECHNICAL CHARACTERISTICS:

- Quick adjustment of height and inclination.
- Installed on rotating wheels with brake.
- High-resistant smooth belts or belts with strips.
- Belt speed of 3 m/min.
- Transmission power/voltage 180W/400V.
- All machines are equipped with safety devices, comply with European standards and are marked with CE logo.

ACCESSORIES:

- Electronic control panel with external consent for programmed operation.
- Electronic control panel with 2-cycle timer.
- Belt speeds available: 1,5–6–9–12 m/min.
- Mechanical speed controller with adjustable feed speed from 0 to 20 m/min.
- Plate metal detector.
- System for separating moulded pieces from runners.
- Tailor-made sizes.
- White belts for food applications or reinforced belts for high temperatures.
- Various separators available.



Detail of height-inclination adjustment



Double-roller separator SRD



Spiral separator SP

Technical data

	Unit of mesaure	NDS 01	NDS 02	NDS 03	NDS 04	NDS 05	NDS 06
Motor power	kW	0.37					
Voltage/Frequency	V/Hz	400/50-60					
Dimensions	mm	A	1300	1300	1300	1800	1800
		B	250	350	450	250	350
		H	600-1000	600-1000	600-1000	800-1600	800-1600
		C	305	405	505	305	405
		D	900	900	900	900	900

Plastic Systems' belt conveyors are suitable to meet the multiple needs of collection, transport, and separation of moulded or blow-moulded pieces on injection and blow moulding machines. The NI series is an inclined belt conveyor adjustable in height and inclination. It is equipped with a smooth polyurethane belt with strips having a height of 30 mm and a pitch of 400 mm.

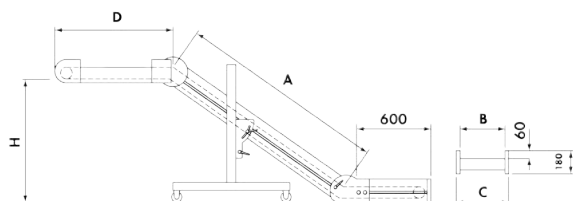


TECHNICAL CHARACTERISTICS:

- Quick adjustment of height and inclination.
- Installed on rotating wheels with brake.
- High-resistant smooth belts or belts with strips.
- Belt speed of 3 m/min.
- Transmission power/voltage 180W/400V.
- All machines are equipped with safety devices, comply with European standards and are marked with CE logo.

ACCESSORIES:

- Electronic control panel with external consent for programmed operation.
- Electronic control panel with 2-cycle timer.
- Belt speeds available: 1,5-6-9-12 m/min.
- Mechanical speed controller with adjustable feed speed from 0 to 20 m/min.
- Plate metal detector.
- System for separating moulded pieces from runners.
- Tailor-made sizes.
- White belts for food applications or reinforced belts for high temperatures.



Detail of height-inclination adjustment



Double-roller separator SRD



Spiral separator SP

Technical data

	Unit of measure	NI 01	NI 02	NI 03	NI 04	NI 05	NI 06	NI 07	NI 08	NI 09
Motor power	kW	0.37								
Voltage/Frequency	V/Hz	400/50-60								
Dimensions	mm	A	1500	1500	1500	2000	2000	2000	3000	3000
		B	250	350	450	250	350	450	250	350
		H	600-1000	600-1000	600-1000	800-1400	800-1400	800-1400	1000-1800	1000-1800
		C	305	405	505	305	405	505	305	405



Plastic Systems' belt conveyors are suitable to meet the multiple needs of collection, transport, and separation of moulded or blow-moulded pieces on injection and blow moulding machines. The NP series and NPP series are belt conveyors adjustable in height.

The NPP series is suitable for robot applications thanks to its configuration and it can be supplied with or without sides.

All the conveyors are equipped with a smooth polyurethane belt and their structure is made of extruded aluminium ensuring a solid, practical and reliable product.

TECHNICAL CHARACTERISTICS:

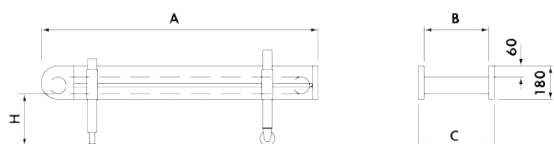
- Quick adjustment of height and inclination.
- Installed on rotating wheels with brake.
- High-resistant smooth belts or belts with strips.
- Belt speed of 3 m/min.
- Transmission power/voltage 180W/400V.
- All machines are equipped with safety devices, comply with European standards and are marked with CE logo.

ACCESSORIES:

- Electronic control panel with external consent for programmed operation.
- Electronic control panel with 2-cycle timer.
- Belt speeds available: 1,5-6-9-12 m/min.
- Mechanical speed controller with adjustable feed speed from 0 to 20 m/min.
- Plate metal detector.
- System for separating moulded pieces from runners.
- Tailor-made sizes.
- White belts for food or reinforced belts for high temperatures.

OPTIONAL COMPONENTS FOR NPP SERIES:

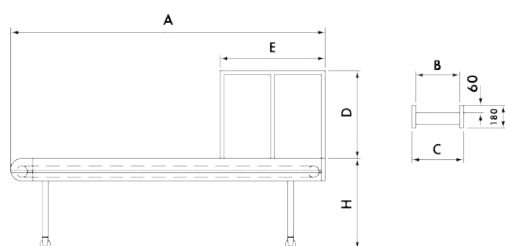
- Adjustable side guides.
- Protections with aluminium profiles and polycarbonate panels.
- Electronic control panel with external consent for robot.
- Alarm or stop photocell at the end of the belt.
- Tailor-made sizes.



NP series



Special adjustable side guides for belt conveyors with no sides.



NPP series

Technical data

	Unit of measure	NP 01	NP 02	NP 03	NP 04	NP 05	NP 06	NP 07	NP 08	NP 09
Motor power	kW	0.37								
Voltage/Frequency	V/Hz	400/50-60								
Dimensions	mm	A	1500	1500	1500	2000	2000	2000	3000	3000
		B	250	350	450	250	350	450	250	350
		H	250-400	250-400	250-400	250-400	250-400	250-400	250-400	250-400
		C	305	405	505	305	405	505	305	405

	Unit of measure	NPP 01	NPP 02	NPP 03	NPP 04
Motor power	kW	0.37			
Voltage/Frequency	V/Hz	400/50-60			
Dimensions	mm	A	3000-4000	3000-4000	3000-6000
		B	450	550	750
		H	800-1200	800-1200	800-1200
		C	505	605	805
		D	1200	1200	1200
		E	1000	1000	1000



Plastic Systems' belt conveyors are suitable to meet the multiple needs of collection, transport, and separation of moulded or blow-moulded pieces on injection and blow moulding machines. The NS series is a belt conveyor having a lower flat part for the collection of pieces and an inclined part for the conveyance.

It is adjustable in height and inclination and it is possible to set the angle between the inclined part and the lower part.

It is equipped with a smooth polyurethane belt with strips having a height of 30 mm and a pitch of 400 mm.

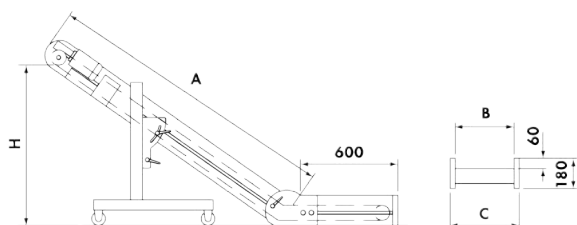
Also available is the NC series, a fixed bent belt conveyor where the angle between the inclined part and the lower part is fixed.

TECHNICAL CHARACTERISTICS:

- Quick adjustment of height and inclination.
- Installed on rotating wheels with brake.
- High-resistant smooth belts or belts with strips.
- Belt speed of 3 m/min.
- Transmission power/voltage 180W/400V.
- All machines are equipped with safety devices, comply with European standards and are marked with CE logo.

ACCESSORIES:

- Electronic control panel with external consent for programmed operation.
- Electronic control panel with 2-cycle timer.
- Belt speeds available: 1,5-6-9-12 m/min.
- Mechanical speed controller with adjustable feed speed from 0 to 20 m/min.
- Plate metal detector.
- System for separating moulded pieces from runners.
- Tailor-made sizes.
- White belts for food applications or reinforced belts for high temperatures.
- Various separators available.



Detail of height-inclination adjustment



Double-roller separator SRD



Spiral separator SP

Technical data

	Unit of mesaure	NDS 01	NDS 02	NDS 03	NDS 04	NDS 05	NDS 06
Motor power	kW	0.37					
Voltage/Frequency	V/Hz	400/50-60					
Dimensions	mm	A	1300	1300	1300	1800	1800
		B	250	350	450	250	350
		H	600-1000	600-1000	600-1000	800-1600	800-1600
		C	305	405	505	305	405
		D	900	900	900	900	900

This machine makes it possible to empty the contents of an octabin inside a container placed next to it, by lifting and tilting the octabin.

During the process the octabin is placed inside a safe area accessible to the operator only when the machine is stopped, by opening a gate equipped with safety sensors

The side walls of such an area are made of perforated sheet metal, so that the operator can safely see inside the area also when the machine is in operation.

During the tilting process, the bottom of the octabin is fastened to the lifting platform by a system of pneumatic grippers.

The lifting platform is not very high and the octabins can be loaded on it with the help of pallet jacks.

The machine can be operated in automatic mode, whereby pressing a button makes the octabin lift or lower completely, or in manual mode, where movements take place only when the lift/lower button is being pressed.

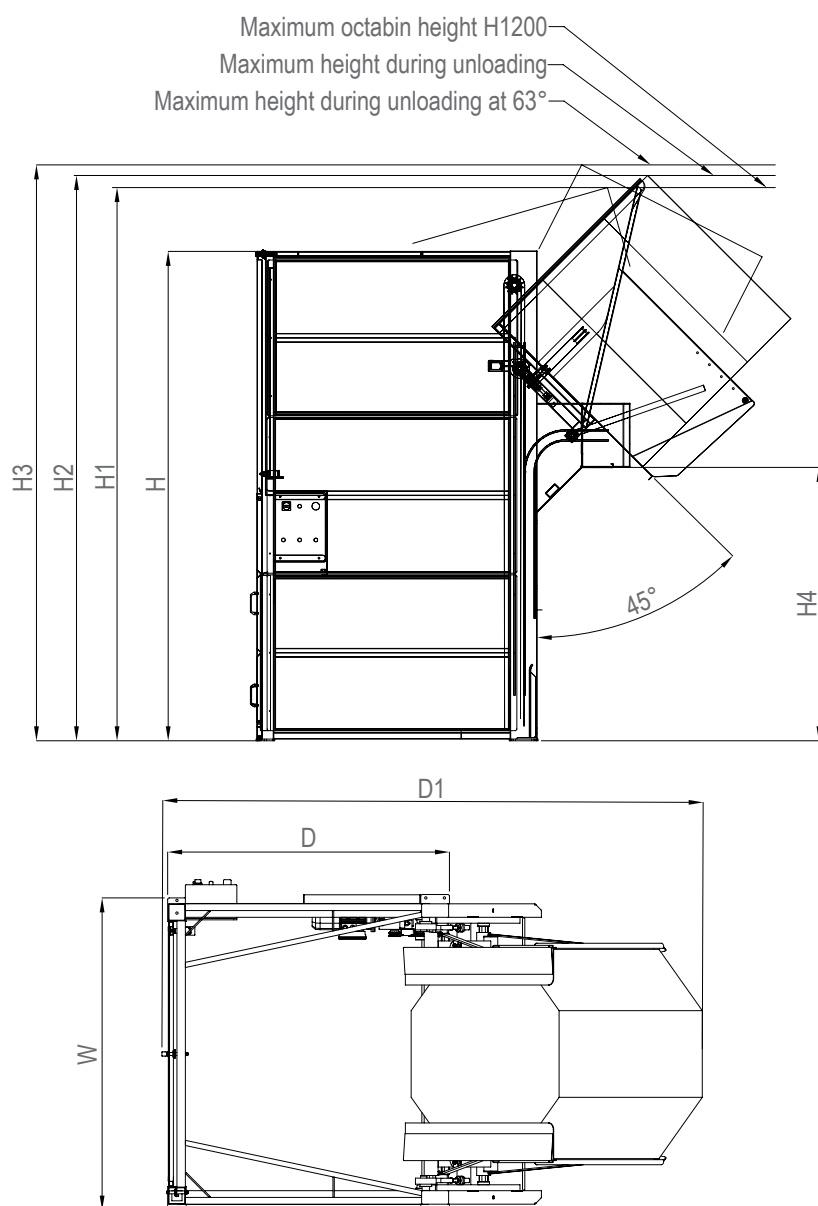


TECHNICAL CHARACTERISTICS:

- Metal frame painted with an antioxidant epoxy powder coating, colour RAL 9006.
- Side protection walls made of perforated sheet metal.
- Upending system operated by chains.
- Fastening grippers at the bottom of the octabin.
- Complete lifting/lowering operation or operation while the control buttons are pressed.

ACCESSORIES:

- Unloading height above floor.
- Entry and exit side of the octabin (front, Right side or Left side).
- Use of safety light curtains, rather than gates, to prevent access to the tilting area.



Controlled discharge system



Side tilting

Technical data

	Unit of measure		RIB1	RIB2
Max. tilting capacity	kg		500	1000
Dimensions	mm	W	1780	1850
		D	1670	1770
		D1	3000	3000
		H	3000	3000
		H4	1620	1620
Tilting height	mm	H1	3278	
		H2	3350	
		H3	3413	
Motor power	kW		1.5	1.5
Weight	kg		800	1200



Double tilter version



The loss-in-weight feeders of the SF series are suitable for dosing free-flowing powders.

The product enters into the hopper manually or through a butterfly valve. A built-in mixer helps to feed the screw so as to avoid problems during the downward movement of the material.

A weighing system with load cell measures any weight variation in real time.

The required throughput is obtained by changing the speed of the screw which is driven by a motor with inverter.

A Siemens PLC controls from 1 to 8 dosing stations.

TECHNICAL CHARACTERISTICS:

- Stainless steel structure.
- Driven by a motor with inverter.
- Control board with a S7 200 Siemens PLC.
- Gearmotor-driven mixer.
- Load cell installed in a protection box.
- Adjustable supporting feet.
- Complete with static mixer.
- Also available: Profibus or Ethernet interface.
- 5.7" Siemens touch screen.

ACCESSORIES:

- +/- 1% precision on the weight of dosed material.
- Real-time control of the throughput.
- Easy setting of parameters.
- Easy to clean.
- Diagnostics, counters and data tracking.



Technical data

	Unit of mesaure	SF250	SF500	SF800	SF1000	SF1500	SF2000	SF2500	SF3500
Produzione minima-massima	kg/h	0.1-25	05-70	3-100	30-280	100-850	140-2100	500-4200	1000-8000
Volume tramoggia	l	6-30	6-30	20-100	20-100	50-300	50-300	110-300	300-1000
Potenza motore dosatore	kW	0.18	0.18	0.22	0.22	0.37-0.55	0.37-0.75	0.75	1.1-2.2
Voltaggio/Frequenza	V/Hz	400/50-60							
Rumorosità	dB(A)	<80	<80	<80	<80	<80	<80	<80	<80



Plastic Systems can provide its expertise, know-how, service, technical advice, engineering and software knowledge for designing storage systems and pneumatic conveying systems of plastic material and additives in granule/powder form.

We can manufacture two types of silos: with long or short support skirts.

The cylindrical aluminium monolithic silos can be installed outside factories and are positioned on properly-sized reinforced-concrete platforms.

All of our silos are manufactured according to norms DIN 4149.

The structural stability is based on loads and stresses so as to comply with standards DIN1055 part 5.

All silos are welded with the so-called vertical-axis technique which ensures the straightness of the cylinder.

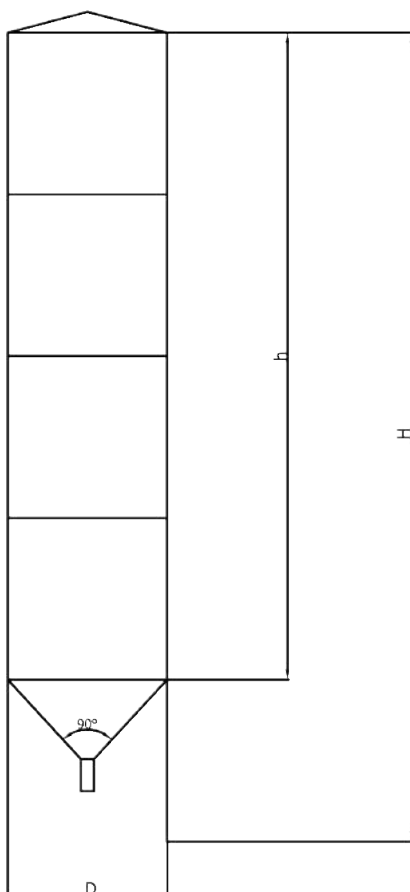
The size of the silo depends on the daily consumption but we recommend choosing a 30%-extra volume.

TECHNICAL CHARACTERISTICS:

- Silos with capacities from 50 to 250m³.
- Silo management via Plastic Systems Supervisor.
- Material level is controlled with radar sensors or load cells.
- The silos are made of AlMg3 5754 aluminium, accessories are made of AlMgSi0,5 alloy 6060, bolts and nuts are made of AISI, and fixing elements are made of stainless steel.

ACCESSORIES:

- Reduction of storage spaces.
- Reduction of the costs of raw material and material handling.
- Reduction of waste of plastic material.



Load cell for weighing silos



Interface for controlling silos

Technical data

VOLUME (m ³)	D(mm)	H(mm)	h(mm)
50	2450	12500	10500
80	2950	13750	11500
100	2950	16250	14000
125	3200	17500	15000
150	3500	17500	15000
175	3500	20000	17600
210	4000	18750	15950
225	4000	20000	17300
250	4250	20000	17130



Plastic Systems can provide its expertise, know-how, service, technical advice, engineering and software knowledge for designing storage systems and pneumatic conveying systems of plastic material and additives in granule/powder form.

Their aluminium modular structure represents a flexible solution for reducing transportation costs. L-shaped flanges along with stainless-steel screws and liquid gaskets ensure a safe and hermetic assembly.

These modular silos can be installed outside factories and are positioned on properly-sized reinforced-concrete platforms.

All of our silos are manufactured according to norms DIN 4149.

The structural stability is based on loads and stresses so as to comply with standards DIN1055.

All silos are welded with the so-called vertical-axis technique which ensures the straightness of the cylinder.

The size of the silo depends on the daily consumption but we recommend choosing a 30%-extra volume.

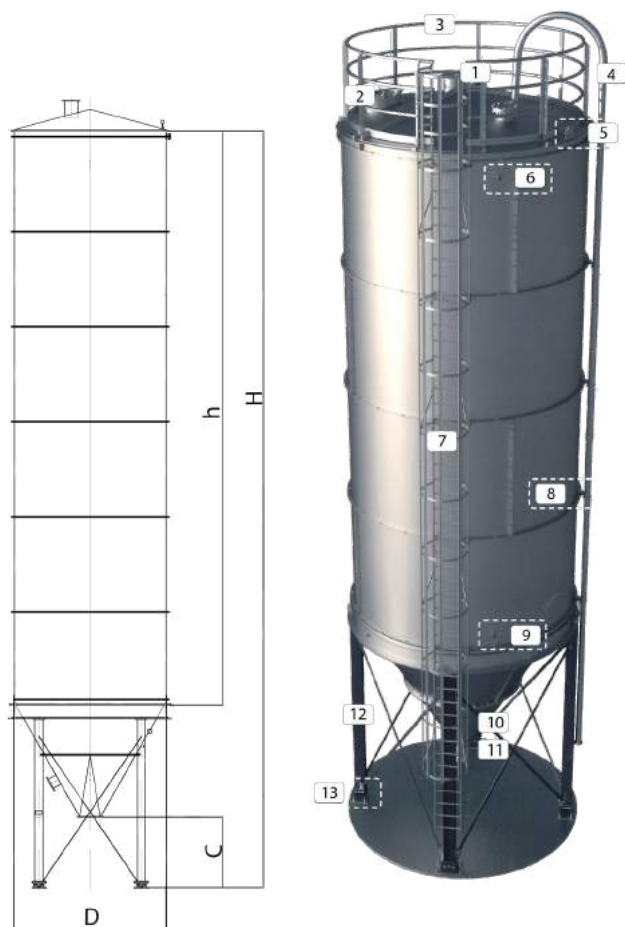
TECHNICAL CHARACTERISTICS:

- Silos with capacities from 150 to 400m³.
- Silo management via Plastic Systems Supervisor.
- Material level is controlled with radar sensors or load cells.
- The silos are made of AlMg2 5454 aluminium, accessories are made of AlMgSi0,5 alloy 6060, bolts and nuts are made of AISI, structure and fixing elements are made of galvanized stainless steel.

ACCESSORIES:

- Reduction of storage spaces.
- Reduction of the costs of raw material and material handling.
- Reduction of waste of plastic material.





Position	Description
1	4"-150 inlet nozzle
2	Ventilated manhole
3	Handrail
4	Filling pipe with STORZ coupling
5	Lifting eyebolts
6	Electromechanical level switch
7	Ladder
8	Supporting hooks of filling pipe
9	Level sensors
10	Name plate
11	6"-150 outlet nozzle
12	Steel supporting legs
13	Load cells



Interface for controlling silos



Load cell for weighing silos

	Unit of measure	C	D	h	H
Dimensions for 150m ³	mm	1000	4250	10240	14840
Dimensions for 200m ³	mm	1000	4400	12240	16990
Dimensions for 300m ³	mm	1000	5400	12090	17840
Dimensions for 400m ³	mm	1000	5900	14540	20540



The shredders TB and TBS are ideal for grinding big and thick pieces thanks to their double shaft. Due to the lack of a perforated screen, it is possible to process high quantities of material.

Their special structure and exclusive cutting system contribute to processing special waste material such as bulky waste that is difficult to grind. The PLC management system allows setting various shredding modes according to the type of material.

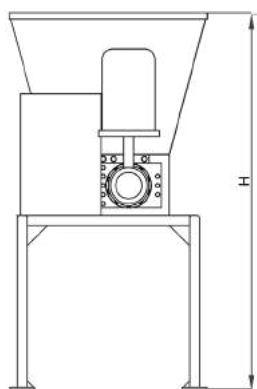
These shredders, together with GSC granulators, ensure considerable energy savings thanks to a total power which is inferior as compared to a single solution with equal results.

TECHNICAL CHARACTERISTICS:

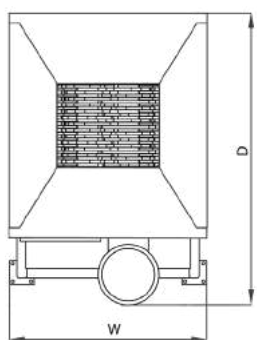
- Reversal system controlled by a PLC.
- Loading hopper.
- Loading and unloading conveying systems.
- Protective guard.
- Supporting structure.

ACCESSORIES:

- Effective volumetric reduction thanks to a double shaft.
- Low energy consumption.
- Safe for the operator.



Cutting chamber



Technical data

	Unit of measure	TB500	TBS600	TBS700
Motor power	kW	5	11	11
Number of blades (15mm thick)		27	38	48
Number of spacers		27	38	48
Number of fixed blades		27	38	48
Hexagonal shafts	mm	70	80	80
Cutting chamber dimensions	mm	410 x 500	578 x 620	728 x 620
Number of revolutions	giri/min	10 - 12	10 - 20	10 - 20
Voltage/Frequency	V/Hz	400/50-60		
Dimensions WxDxH	mm	1500 x 1000 x 1900	1330 x 1380 x 2400	1430 x 1380 x 2400
Weight	kg	650	1400	1500



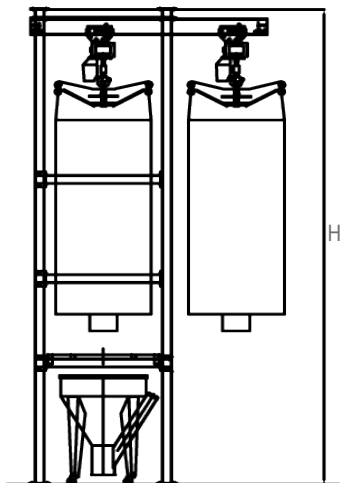
Big-bag emptying systems come in different configurations depending on the type of material:

- Version for granules.
- Version for flakes.
- Version for powders.

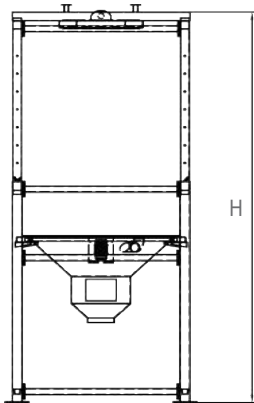
It is possible to install an hoist for lifting big bags. For special and difficult products, the system can be equipped with a vibrating cone and shaking pistons.

TECHNICAL CHARACTERISTICS:

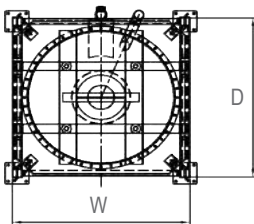
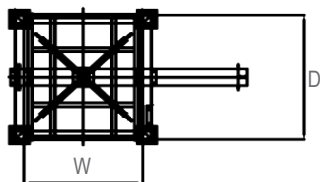
- Easy to use.
- Safe and reliable.
- Fast installation.



SBB-C



SBB



Technical data

	Unit of mesaure	SBB	SBB-C
Dimensions WXDxH	mm	1500x1500x4550	1500x2600x5740



Thrust loading units are ideal for the pneumatic conveyance of material from a ground location to indoor and outdoor silos.

Hourly capacities range from 2000 to 14000 kg/h with a maximum horizontal distance of 100 meters and a maximum vertical distance of 20 meters.

Suitable for emptying 25kg bags, big bags, octabins.

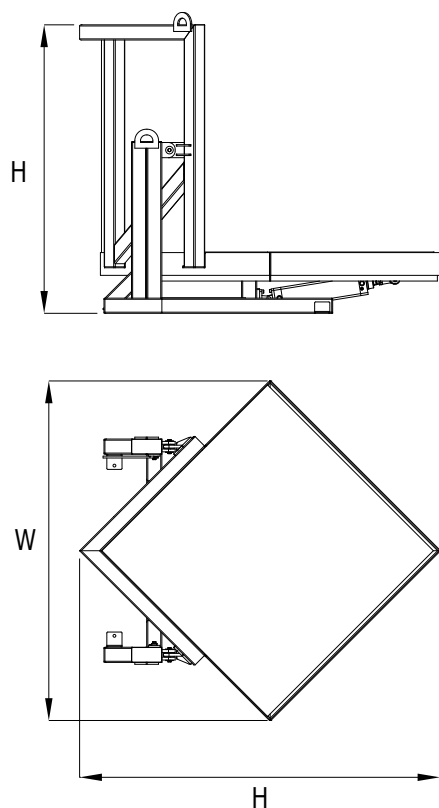
For each type of container, we can provide:

- tank for emptying bags;
- frame for emptying big bags;
- tilt table for octabins;



ADDED VALUE:

- Possible reduction in the cost of raw material.
- Space optimization.
- Fast and safe storage of material in silos.
- Fast installation.



Technical data

	Unit of mesaure	GCS 11	GCS 15	GCS 20	GCS 45
Blower power	kW	11	15	20	45
Model of rotary valve	mm	UPR 200	UPR 200	UPR 250	UPR 250
Rotary-valve power	kW	1.1	1.1	1.5	1.5
Maximum capacity	kg/h	2500	4000	6000	14000
Horizontal/vertical distance	m	30/10	30/10	40/15	40/20
Tank capacity	lt	400	400	2000	2000
Pipe diameter	mm	70	101.6	100	140
Position of blower		Installed on the frame	Installed on the frame	Blower and tank are separate	Blower and tank are separate
Noise level	dB(A)	< 80	< 80	< 80	<80
Dimensions WxDxH	mm	1500x2183x1135	1500x2183x1135		1550x2285
Type of blower		With side channels	With side channels	With rotating blades	With rotating blades

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