



Syacurablend

Off-line loss in weight gravimetric blender

SYACURABLEND is an off-line batch loss in weight gravimetric blender designed to blend multiple components simultaneously for all processes where a homogeneous mix is critical to achieve an excellent final product. Thanks to its unique design it can be installed on the ground floor or on the mezzanine to prepare a blend of components to be delivered to the extruder. Ideal for premixing of additives or where a minimum blend storage is required.



PRINCIPLE OF OPERATION

The ingredients are continuously and simultaneously metered directly in the integrated mixing chamber through a cascade static mixer. Thanks to the big mixer chamber volume, a perfect mixing of the components is guaranteed. The blend can be then conveyed on the next step of the process or discharged in a gravimetric hopper for extrusion control or in another dosing unit.

MAIN FEATURES

PLC. INDUSTRY 4.0 & IoT

Syacurablend has a PLC with protocol OPC/UA embedded. This solution makes each blender modular and ready for Industry 4.0.

CONVEYING SYSTEM

Syacurablend can be supplied along with an integrated centralized conveying system controlled by the same PLC as the blender.

MODULARITY

Thanks to its design Syacurablend can be upgraded in future to allow the possibility for additional components to mix, up to max 6 components.

EXTREMELY LOW %

Syacurablend system can dose down to 100 gr/h.

FLEXIBILITY

Syacurablend can run up to 100 % with all its components.

BLENDING

Thanks to its innovative cascade static mixer and a motorized screw mixing device positioned into the main mixer chamber Syacurablend guarantees a perfect blend.

CLEANING

Syacurablend components all have removable gravimetric hoppers, so blender cleaning and production changeover has never been as fast and easy for an operator.

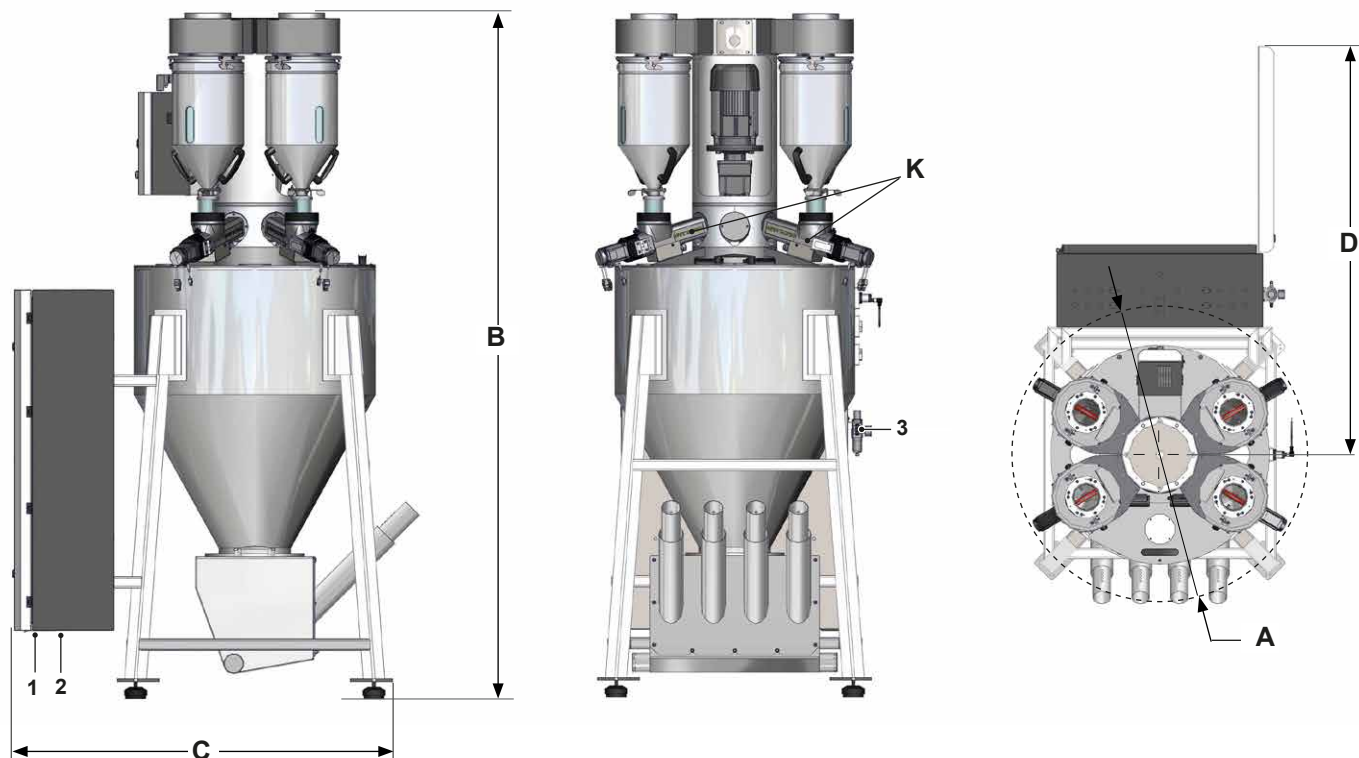
HT VERSION

As option Syacurablend can manage hot materials up to 180°C.

INTEGRATED IN SYNTROL

As all SYNCRO dosing units Syacurablend can be connected and controlled by supervisory system SYNTROL.

TECHNICAL DATA



Model	S2*	S3*	S4*	S5*	S6*	M2	M3	M4	M5	M6	L2	L3	L4	L5	L6
Flow rate** max (kg/h)	550					1160					1880				
Single volume hopper (dm ³)	16,7					35,2					57				
Mixer volume (L)	380					500					800				
Suitable hopper loader model	F270					F270 - F370									
Weight (kg)	330	360	390	420	450	380	410	440	470	500	430	460	490	520	550
Ø A (mm)	1130					1350									
B (mm)	2400					2485					2945				
C (mm)	1330					1380									
D (mm)	1580					1610									

Dosing screws (K)

Diameter x pitch (mm)	10 x 8	10 x 10	15 x 10	15 x 15	20 x 20	25 x 25	30 x 30	40 x 40	50 x 50	60 x 60	70 x 70
Flow rate** @ 450 rpm (kg/h)	23	28	50	75	110	220	320	600	1000	1500	2050
Flow rate** @ 5 rpm (kg/h)	0,1	0,4	0,6	1	1,3	2,9	3,5	7	11,5	17	25

* For S models, possible dosing screws range from 10 x 8 to 40 x 40;

** Flow rate values are calculated considering the apparent density of the granule = 0,55 kg/dm³. They vary according to the grain size of the material.

1_ Communication interface; 2_ Power supply; 3_ Compressed air inlet.