



# 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.

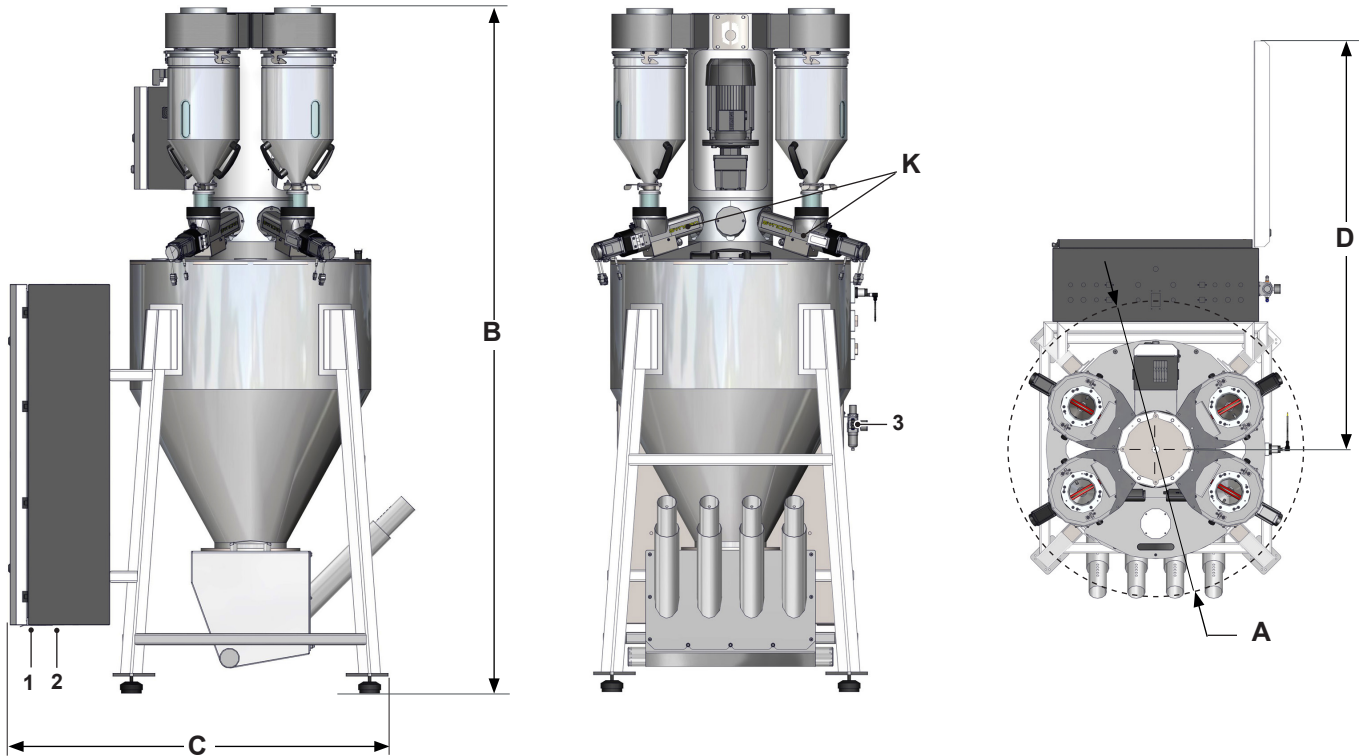
#### HT VERSION

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 <sup>3</sup> )	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/dm<sup>3</sup>. They vary according to the grain size of the material.

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