



## SYDOS

# The continuous loss-in-weight gravimetric Blender

**SYDOS** is a continuous loss in weight gravimetric dosing system designed to meter multiple components simultaneously and is ideal for different production processes where accurate and consistent blends are required

### PRINCIPLE OF OPERATION

Loss in weight dosing of each component. All the side components are continuously and simultaneously metered directly in the extruder feed throat through a cascade mixer. Each of the side components are simultaneously metered into a cascade mixer where they are blended together with the main gravity flowing component. The side feeders are individually controlled in order to reach and maintain the preset metering ratios and to maintain a constant level above the extruder feed throat.



### MAIN FEATURES

#### CLEANING

SYdos is designed with all the side component gravimetric hoppers being removable, so blender cleaning and production changeover has never been as fast and easy for the operator.

#### ACCURACY AND VIBRATION

SYdos has 2 loads cells for each component to negate vibration and to have better stability and improve the accuracy of dosing. All the loads cell are protected to avoid any possible damage.

#### BLENDING

SYdos thanks to its innovative static cascade mixer and all side components metered by auger screw, guarantees excellent blending and avoids poor mixing as seen in classic dosing systems.

#### HMI

Every blender has its own HMI touch screen allowing the operator to easily set the parameters, calibrate the load cells and check alarms. VNC is installed to allow easy remote monitoring via an internet/ethernet connection.

#### PNEUMATIC

Digital pneumatic components are connected directly via serial port to the PLC ensuring the installation is as easy as possible and allowing for simple troubleshooting. Thanks to this modular solution, future upgrades are easy to manage.

#### PLC AND I/O

All blenders have a B&R PLC installed along with B&R I/O. This solution makes each blender modular ensuring that the future addition of components is possible plus ease of maintenance in case of any component failures.

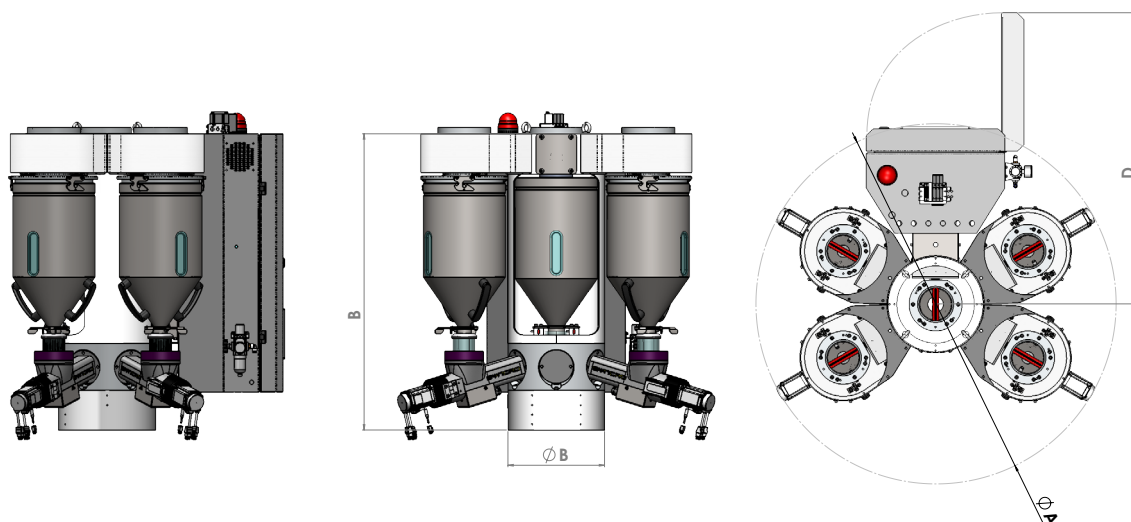
#### CONVEYING SYSTEM

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

## MODULARITY



## TECHNICAL DATA



		S2	S3	S4	S5	S6	M2	M3	M4	M5	M6	L2	L3	L4	L5	L6
Nominal troughput	Kg/h	250					500					1000				
Installed power	Kw	1	1,4	1,8	2,2	2,6	1,7	2,5	2,9	3,3	3,65	2,2	3,2	4	4,7	5,45
Suitable hopper loaders	Model	F270					F270 - F370					F270 - F370				
Working temperature	°C	0 - 40					0 - 40					0 - 40				
Storage temperature	°C	-10 - 60					-10 - 60					-10 - 60				
Pneumatic working pressure	Bar	6					6					6				
Weight	Kg	150	175	205	235	265	175	190	215	245	275	205	235	265	295	325
Dimension A	mm	1160					1380					1380				
Dimension B	mm	920					1030					1270				
Dimension C	mm	300					400					400				
Dimension d	mm	900			1220		950			1220		950			1220	