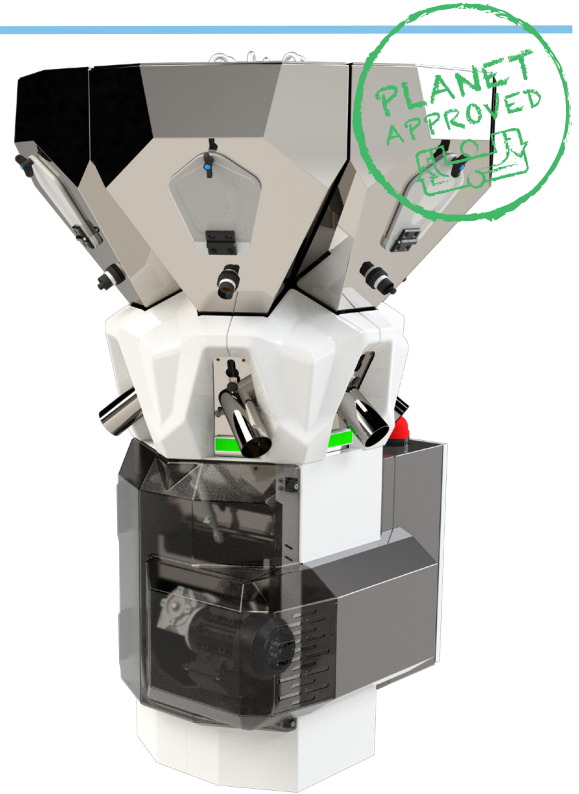




MYBATCH³

The innovative gravimetric dosing unit

MYBATCH³ the latest-generation gravimetric batch blender extends batch operation to extremely low percentages of minor components and additives, optimises component dosing accuracy and guarantees excellent blending homogeneity. The compact design, individual hoppers for each component separated from each other, and a wealth of options make the machine modular and configurable for a variety of applications.



OPERATING PRINCIPLE

Each component is dosed sequentially into the scale below in the proportions defined in the recipe by means of a particularly fast, repetitive and low-inertia slide valve. Once the batch is complete, the material is discharged into the inclined mixer installed on a load cell. The design of the mixing reel blades rotating inside the mixer ensures that the components are homogeneously mixed very quickly. The mixer's load cell detects the minimum material level that determines the discharge of a new batch and ensures loss-in-weight control of the extrusion screw.

MAIN FEATURES

MODULARITY

The MYbatch³ components range from 2 to 6. The electrical cabinet and terminal boxes are prepared to receive the maximum number of components, and the addition of hoppers and valves for further components defined after the purchase of the machine is particularly simple and fast.

LOADING

The MYbatch³ software manages the loaders and compressors of the conveyor system. The loaders can be installed directly on the hoppers of the machine. MYbatch³ can be supplied as a BOX version when the feeders and pre-feeding hoppers are positioned on the tower mezzanine and connected to the feeder with pipes.

DOSAGE OF COMPONENTS

Each component is adjusted to the required dosing rate by replacing a suitable interchangeable adapter that reduces the material drop hole above the shut-off valve.

HIGH TEMPERATURE MATERIALS

MYbatch³ can process hot materials with temperatures up to 180 °C.

MIXING AND HOURLY PRODUCTION

The short mixing times allow the feeder to perform a high number of cycles per hour. The result is: a volume-limited feeder delivers a high flow rate per hour.

SMARTDRAYN

MYbatch³ can be supplied with an automatic component draining system for fast, clean recipe changes in production. The material removed from the machine is transported to a collection point and discharged into a special container to which a label or QR is applied for material tracking.

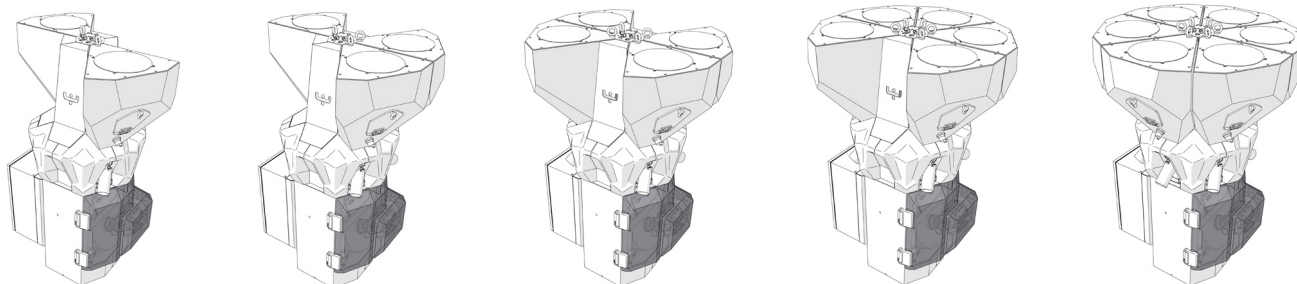
CLEANING AND MAINTENANCE

All normal maintenance and cleaning operations are quick and easy. Replacing a reduction when the component flow rate changes takes no more than 3 minutes.

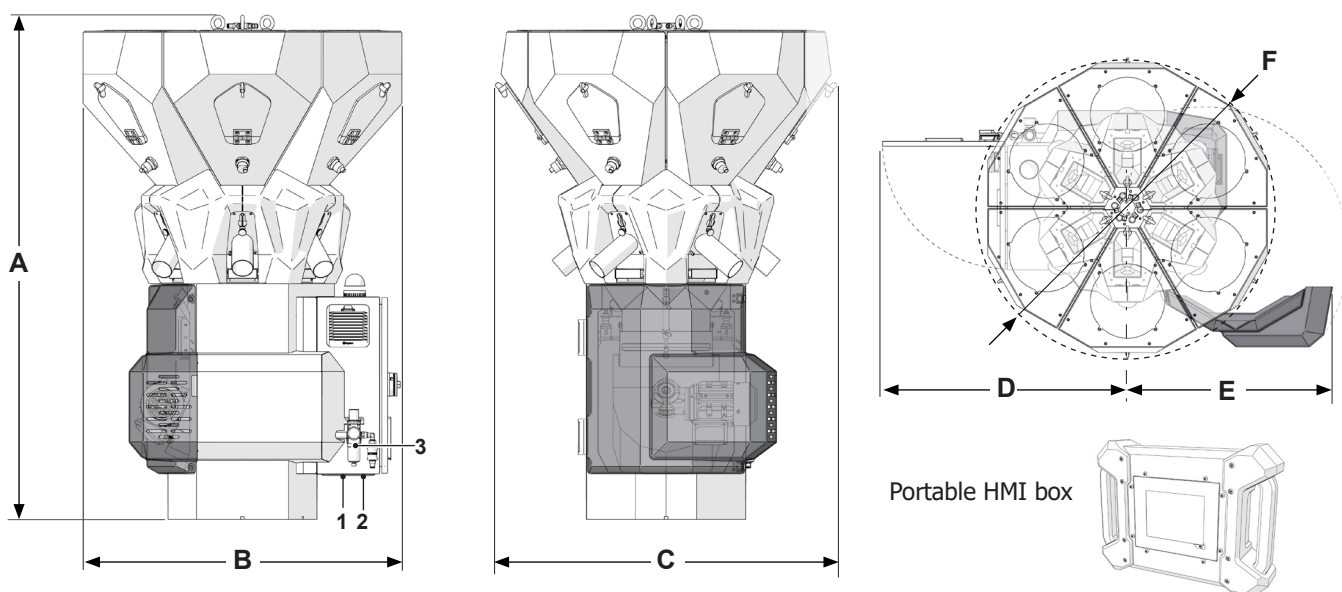
INDUSTRY 4.0 & IoT

All SYncro machines are ready to be integrated with third party supervisory controls and ERP systems using the latest generation of OPC-UA protocols as standard.

MODULARITY



TECHNICAL DATA



| Model | S2 | S3 | S4 | S5 | S6 | M2 | M3 | M4 | M5 | M6 | L2 | L3 | L4 | L5 | L6 | XL2 | XL3 | XL4 | XL5 | XL6 |
|------------------------------------|-----------------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-------------|-----|-----|-----|------|--------------------|-----|------|-----|------|
| Nominal inlet throughput (kg/h)* | 300 | | | | | 500 | | | | | 1000 | | | | | 1200 | | | | |
| Max Batch Weight (kg) | 1,25 | | | | | 2,5 | | | | | 5 | | | | | 7 | | | | |
| Gross Volum single compartment (L) | 18 | | | | | 25 | | | | | 45 | | | | | 70 | | | | |
| Installed Power (kW) | 0,9 | | | | | | | | | | 1,13 | | | | | | | | | |
| Consumption Power (kW) | 0,6 | | | | | | | | | | 0,8 | | | | | | | | | |
| Consumption Compressed Air (NI/h) | 75 | 95 | 115 | 135 | 155 | 75 | 95 | 115 | 135 | 155 | 65 | 83 | 101 | 119 | 137 | 65 | 83 | 101 | 119 | 137 |
| Valve discharge dimensions (mm) | 35 x 35 / 45 x 45 / 56 x 60 | | | | | | | | | | | | | | | | | | | |
| Suitable hopper loader model | F270 | | | | | | | | | | F270 - F370 | | | | | F270 - F370 - F470 | | | | |
| Weight (kg) | 115 | 125 | 135 | 145 | 155 | 125 | 135 | 145 | 155 | 165 | 175 | 190 | 205 | 220 | 235 | 203 | 210 | 217 | 230 | 240 |
| Dimension A (mm) | 1260 | | | | | 1425 | | | | | 1630 | | | | | 1830 | | | | |
| Dimension B (mm) | 900 | | | | | | | | | | 1000 | | | | | 1200 | | | | |
| Dimension C (mm) | 775 | | 865 | | 965 | 775 | | 865 | | 965 | 860 | | 930 | | 1045 | 1040 | | 1140 | | 1240 |
| Dimension D (mm) | 790 | | | | | | | | | | 850 | | | | | | | | | |
| Dimension E (mm) | 660 | | | | | | | | | | 685 | | | | | | | | | |
| Dimension F (mm) | 965 | | | | | | | | | | 1080 | | | | | 1280 | | | | |

* The indicated flow rate values refer to materials with apparent granule density = 0.55 kg/dm³, they vary depending on the particle size/type of material.
 The values given are general indications; depending on the specific percentages and their range in the recipe, a variation of up to ± 20% of the maximum flow rate is possible.
 For flow rates below 300 g/h we recommend the installation of a screw feeder, which in turn can change the exact value of the maximum sustainable flow rate.

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