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*Advanced scale
dosing system explorer
Polymer Compounding*



About Us

Sonner is an innovative and dynamic company, specialized in weighing and feeding technology having its own R&D, design, manufacture and application centre.

Sonner based on independent research and development, it has gathered a group of top talents in the fields of engineering, R&D, manufacturing, and management, to achieve creative results.

The products and services provided by Sonner mainly cover the polymer compounding, extrusion products industry, food processing and chemical industry.

At present, Sonner is headquartered in China and has an office in India.

With the joint efforts of agents and its own sales team, Sonner products have been sold all over the world:-Asia (China, India, Japan, Korea, Singapore, Thailand, Indonesia)

Technology and Service

While constantly innovating, Sonner is more customer oriented, always provides customers with advanced technology and excellent service in the first place.

Sonner's products are the crystallization of advanced management methods, design and manufacturing technologies:

- Clarify and analyze customer needs, establish the development or design direction of the project.
- Independent research and development, design and manufacture products with Sonner's independent intellectual property rights.
- Keep improving, continuously test and improve the product.
- Adopt the leading digital quality house management and control system.
- Implement refined management in every key link of design, procurement, production, quality inspection, logistics, and post-meeting.

Sonner's service adheres to the principle of customer first, to ensure customer satisfaction in all aspects:

- Develop customized technical solutions to meet customers' requirements for special raw materials and special processes.
- Provide high-standard equipment on-site installation and commissioning services.
- Provide a full-time and well-trained after-sales service team and comprehensive after-sales protection (maintenance, guidance, parts supply, etc.).

Certified

Product quality and safety are fundamental principles of Sonner. All of our products are regularly tested and continuously improved to meet international quality norms.



Applications

Our products are widely used in polymer compounding and granulation industries, mainly including:

- Polymer Compounding.
- Engineering plastics.
- Functional masterbatch, color masterbatch.
- Wire and cable raw materials.
- Thermoplastic elastomer.
- Wood plastic.
- Degradable products.

Our products are also used in the extrusion process industry:

- Production of films, sheets, profiles, pipes and containers .

Chemical Fiber:

- Fully drawn yarn (FDY).
- Partially oriented yarn (POY).
- Bulked continuous filament (BCF).
- Polyester staple fiber (PSF).
- Non-woven fabric (NON-WOVEN).

Product Series

Polymer Compounding

- T/S Loss-In-Weight (Gravimetric) Screw Feeder
- LWM Loss-In-Weight (Gravimetric) Liquid Feeder
- BF Loss-In-Weight (Gravimetric) Belt Feeder
- M280 Ergonomic Industrial Controller

Batching, Unloading, Conveying

- UM Gain-In-Weight (Gravimetric) Batch Mixer
- FC Negative Pressure Conveying
- BU Unloading Bin
- ICH Storage Silo

T/S

Screw Feeder
Loss-In-Weight (Gravimetric)



T14/S22 , T22/S45, T36/S72,
T50/S96, T65/S123
T/S series screw feeders
continuously measures materials and
feeds according to the Loss in weight
principle.

Typical output range:
0.3~5000kg/h (Granular)
0.3~2500kg/h (powder)

Applicable materials:

- Easy-flowing granular raw materials.
- Recycled material.
- Powdery raw materials that are easy to flow or not easy to flow.

Features

- T22/S45 Model has Single and double screw interchangeable.
- A new generation of transmission can provide high and low speed range selection, feeding range is wider.
- The tool-free disassembly concept makes the screw feeder cleaning and maintenance time shorter and easier.

LWM

Liquid Feeder
Loss-In-Weight (Gravimetric)



LWM02, LWM20, LWM80
LWM series liquid feeders
continuously measures liquids and feeds
according to the Loss in weight principle.

Typical Output range:
0.15~800kg/h.

Applicable materials:

- High and low viscosity liquids.
- Liquids with corrosive properties.
- Liquid, powder mixture.

Features

- Filtration, voltage stabilization, steady flow, safety circuit design, to ensure constant pressure and precise delivery of liquid.
- Modular circuit connection ensures the least joint transfer. Reduces circuit leakage points. Is more reliable in use.

BF

Belt Feeder
Loss-In-Weight (Gravimetric)



BF150 and BF300
BF series loss-in-weight belt feeders include two models:
This series of feeders continuously measures materials according to the Loss in weight principle.

Typical output range:
1~2000kg/h

Applicable materials:

- Easy-flowing granular raw materials.
- Recycled materials that are not easy to flow.
- Low melting point powder.

Features

- Belts of different materials can be selected: PU/PET.
- Equipped with a scraper to ensure that the material cannot enter the drive roller.

M280

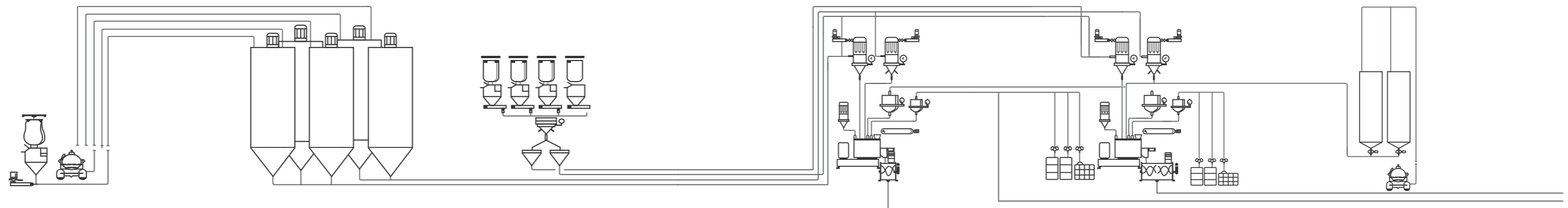
Ergonomic Industrial Controller



M280 is a new generation of controller in Sonner HMI industrial control system family, which has been upgraded for several years, it has passed strict EMC tests, and has excellent performance in harsh industrial sites, reliable and stable operation, humanized design concept, no matter Whether it is an operator or an engineer, any equipment maintenance engineer can operate freely without an operation manual.

Features

- 12" touch operation display screen, more comfortable on-site operation.
- Support Modbus RTU, Modbus TCP/IP, Profibus DP, ProfiNet mainstream communication protocols.
- Support USB storage hard disk, easy data export.
- Support multilingual operation display.



UM

Batch Mixer Gain-In-Weight (Gravimetric)

UM03, UM07, UM12, UM18, UM36.

The **UM** series gain-in weight mixer includes five basic models: This series precisely controls the flow rate of each component metering valve or screw feeder according to the weight-increasing working principle to ensure the accuracy of the formula of each batch of mixture.

Typical output range:
1~2000kg/h

Applicable raw materials

- Easy-flowing granular raw materials.
- Easy-flowing micro-particle powder.
- Regular broken materials, recycled raw materials.

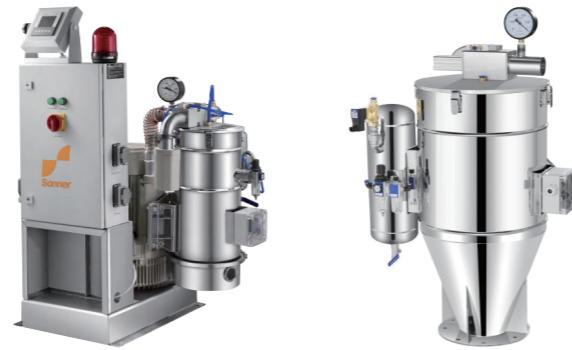
Features

- 4 or 6 station standard designs are available.
- Configure vertical metering valves, horizontal metering valves, micro metering valves, and screw feeders according to the ratio requirements.
- Optimized weight gain control algorithm to ensure long-term control accuracy <0.3%.
- Optimized mixer with less residue.
- Clean and easier to switch raw materials.



FC

Negative Pressure Conveying



The raw material conveyor is an automatic raw material conveying meter that adopts the principle of dilute-phase vacuum negative pressure transmission. It can, not only transport raw materials from the storage bin to one production line with a single machine but also can transfer to multiple lines.

Typical output range:
1~2000kg/h

Applicable raw materials

- Easy-flowing granular raw materials.
- Crushed materials, recycled raw materials.
- Powdery raw materials that are easy to flow or not easy to flow.

Features

- According to the conveying conditions, high-pressure air pump or Roots blower can be selected.
- Vacuum receiving tank for granular raw materials is suitable for conveying granular, crushed and recycled materials.
- Vacuum receiving tank for powdery raw materials has 1-5 micron filter, and also has the function of blow-back for auto cleaning of the filter.
- The central filter ensures that the power source can work reliably for a long time.
- Filters can be removed, maintained or replaced without tools.
- More professional pipeline accessories, such as elbows, hard pipe clamps, shunt tubes.

BU

Unloading Bin

PBU25, PBU1000, IBU25, IBU1000

BU series is a raw material unloading device including five basic models: are suitable for manual feeding and unloading of 25kg bags and 1 ton bags.

Applicable raw materials

- Easy-flowing granular raw materials.
- Crushed materials, recycled raw materials.
- Powdery raw materials that are easy to flow or not easy to flow.

Features

- Volume 50-1000L.
- Provide three bridge breaking methods: mechanical stirring, electric vibration and air blow.
- Dust filter, axial flow fan exhaust.
- Standard 25kg bags feeding port, with safety switch.
- Standard 1 ton bag feeding port, quick clip design.



ICH

Storage Silo



ICHS100, JCHS400, JCHS600, ICHS1000.

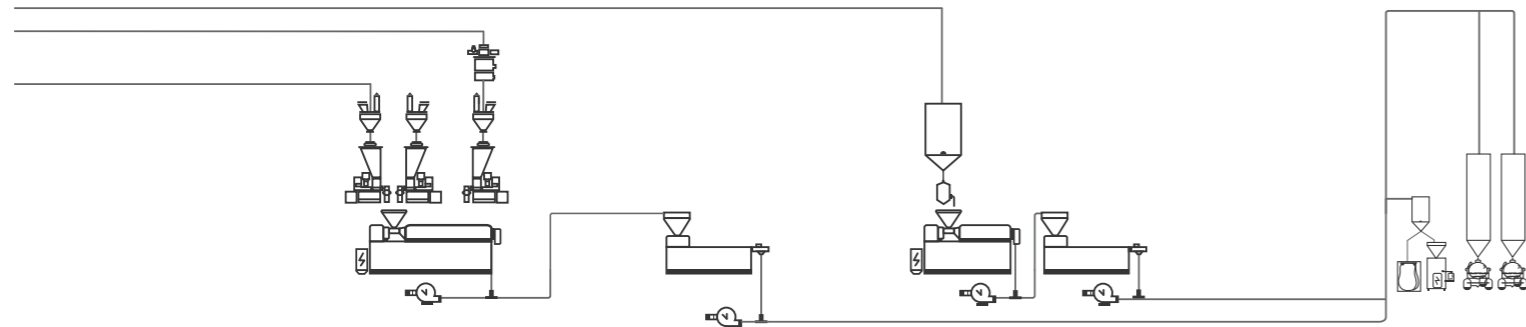
It is suitable as a feeding bin for a loss-in-weight feeders, with a volume of 50-1000L.

Applicable raw materials

- Easy-flowing granular materials, e.g. spherical, cylindrical, flat - Crushed materials, recycled raw materials.
- Powdered raw materials that are easy to flow or not easy to flow.

Features

- There are three ways to break the bridge: mechanical stirring, motor vibration, air bowl.
- Equipped with an exhaust filter to ensure that there is no dust overflow during exhaust.
- Material inlet: provide a quick release interface for the vacuum receiving tank.
- Outlet: Adopt standard DN flange interface.



Application

In the mixing and granulation industry, it is often necessary to mix or change the formula frequently because of the grade, batch and variety of the pellets in the process.

If each material uses a loss in weight scale, the input cost is high.

If it is mixed manually, it not only poses a challenge to manual weighing but also may cause errors.

Data tracking cannot be carried out.

SONNER's batch weight-increasing equipment UM handles all pellet weighing and batching processes and then measures through loss-in-weight feeders. At the same time, it enters the extruder together with other powders or additives measured by weight loss for mixing. It is fully automatic with full-process measurement and full-data automatic production.

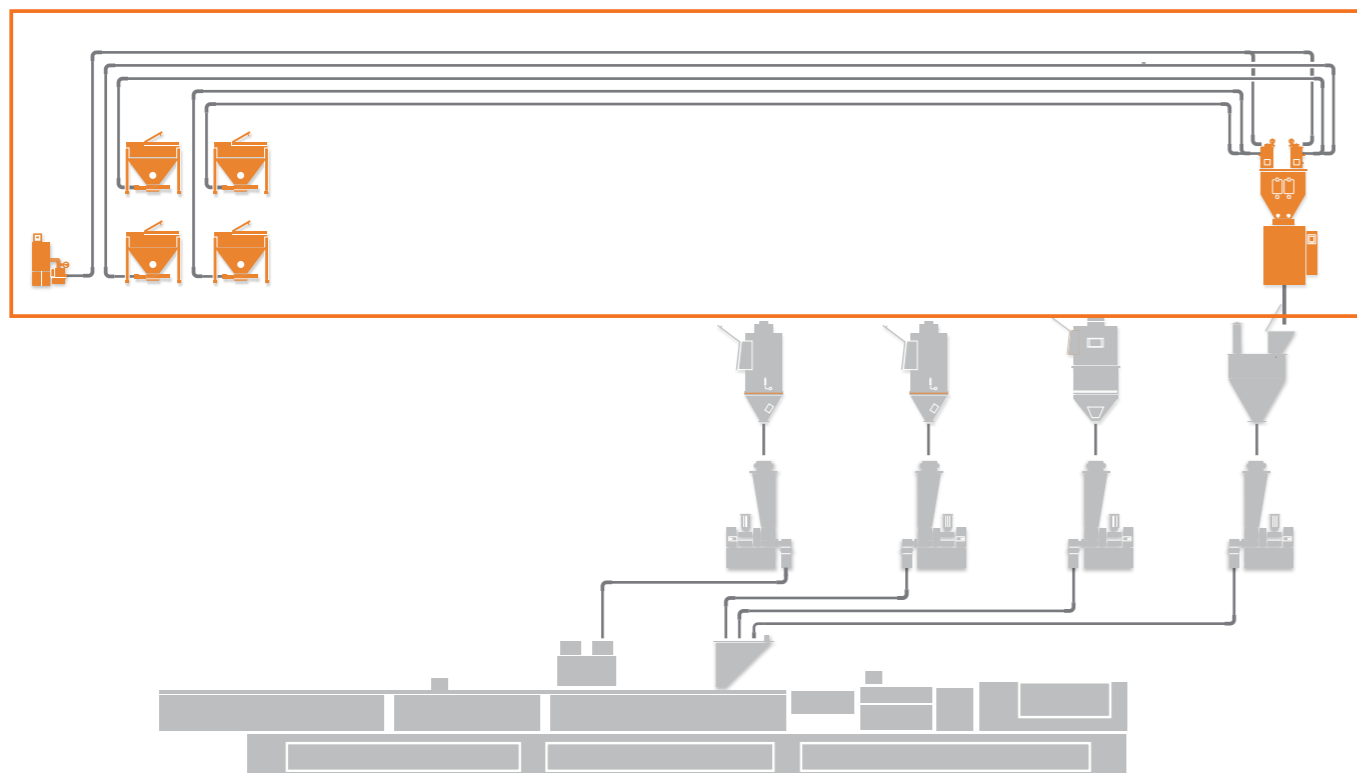
This process investment is very economical, and data can also be tracked.

It can realize formula management together with loss-in-weight equipment.

1.FC Automatic Conveying System + UM Batch Weighing Equipment Replaces manual batching and Conveying

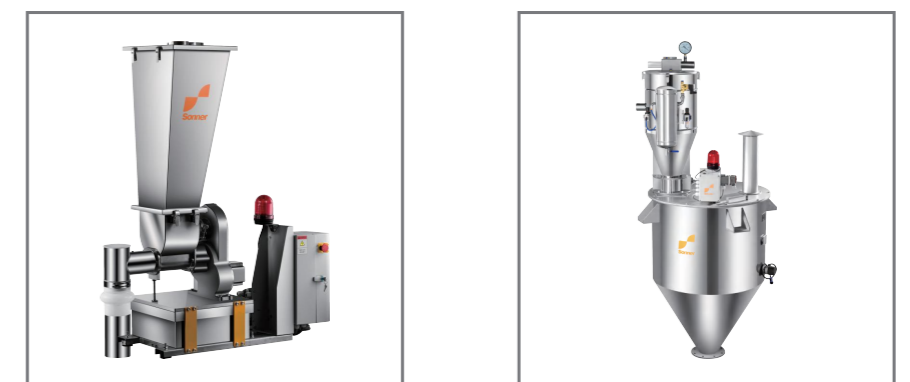
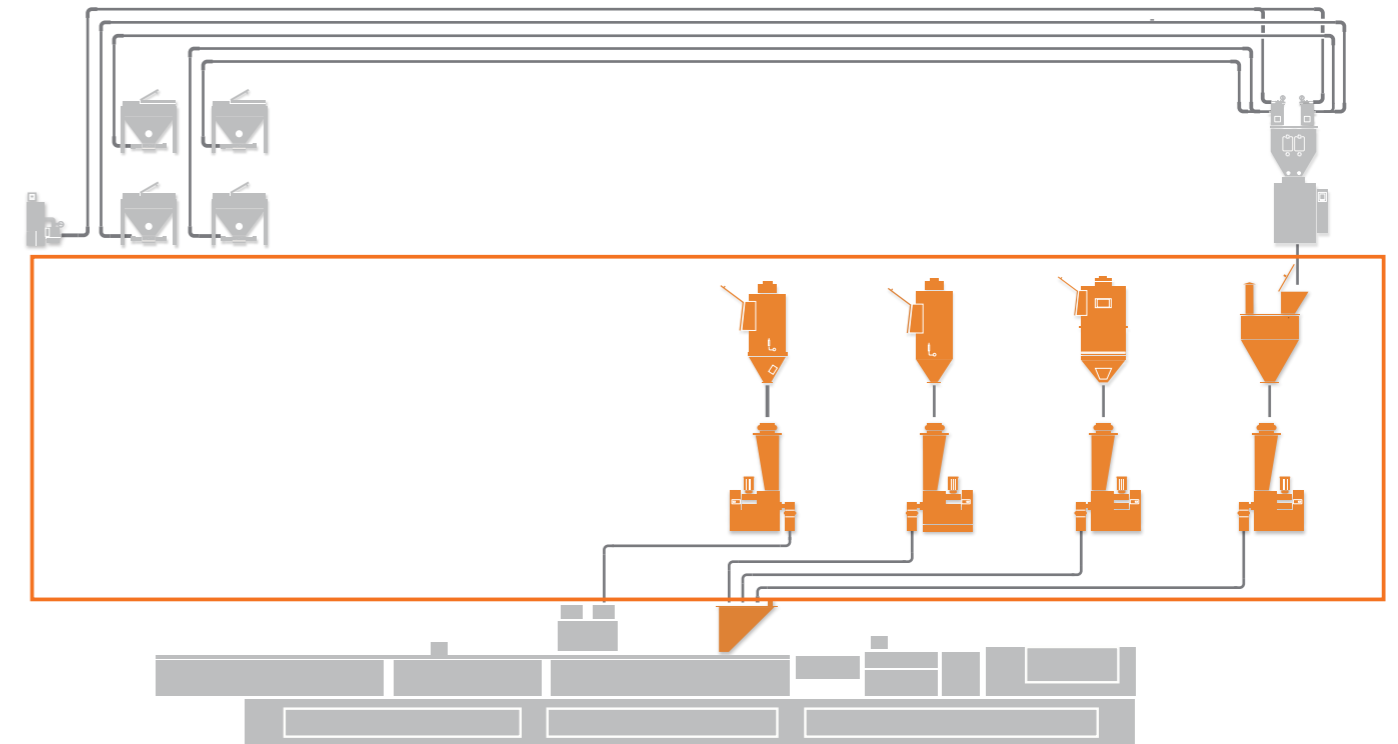
Different pellets are stored in a fixed silo, only need to fill up the silo and the computer automatically weighs the raw materials in batches according to the formula.

Which is not only environmentally friendly, but also saves labor, reduces error rates and shortens the process route.



2.GBL Loss-In-Weight Measurement for Precise Measurement

Loss -in-weight metering equipment can be used for dosing to the extruder for batches that have been mixed. At the same time enter the extruder together with other powders or additives measured by weight loss for compounding.



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