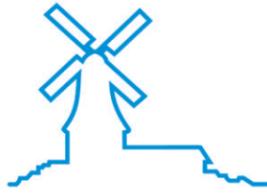
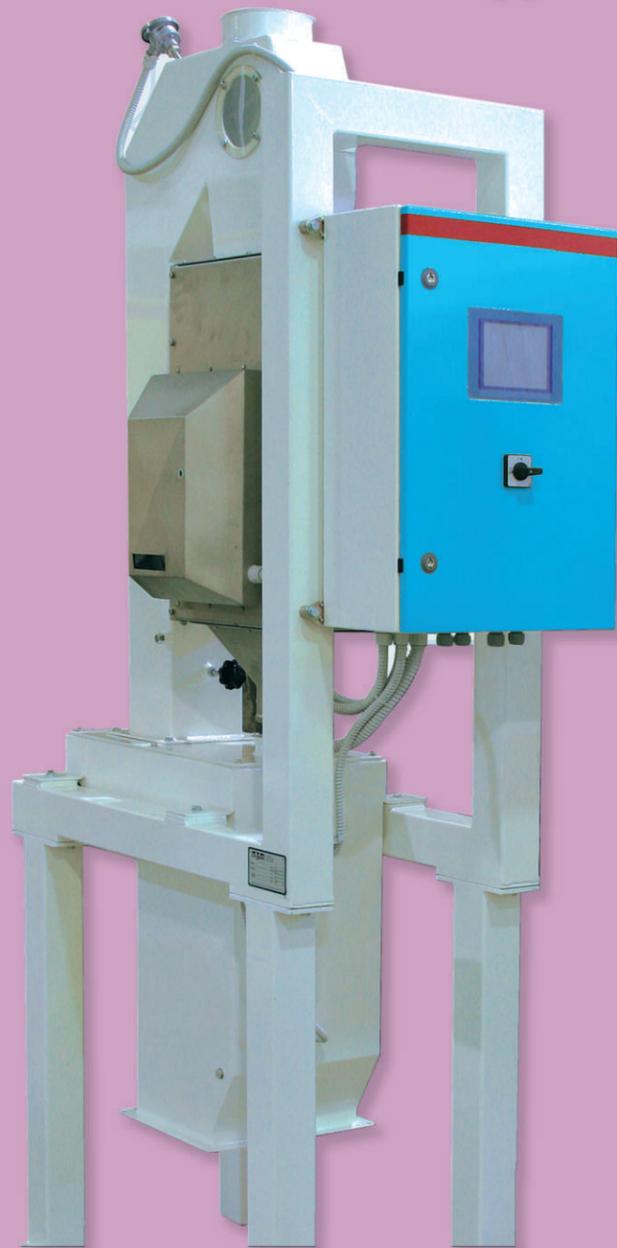


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MESMA
TRADING

Automatic Dampening Unit Type GBA



Water Panel

Characteristics of the Automatic Dampening Unit Type GBA

Easy & quick calibration



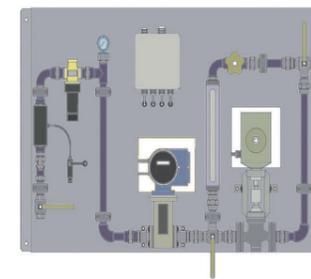
Calibration and periodical check can be easily and quickly executed by taking a product sample and analysing it in laboratory. Commands given through the operator panel allow to perfectly readjust the machine obtaining the required accuracy for effective control of plant yield.

User control panel



The use of touch-screen display make the operator interface extremely logical and user-friendly. Few and simple pressures on virtual buttons permit setting of main working parameters and detecting possible alarms. The head page reports evidently the decisive flow rate, net hopper weight and basic using indications.

Water panel



The addition of suitable water amount is accomplished by a panel provided with all necessary instruments for accurate supply, both in mechanically or manually condition. Following instruments are assembled on a stainless steel plate:

- Automatic shut-off valve
- Filter and pressure regulator
- Visual flow rate indicator
- Electronic flow rate meter
- Automatic adjusting valve
- Automatic/manual by-pass valves

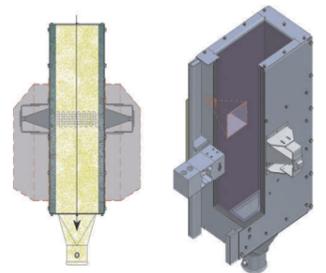
| Flow Rate Liter/h | Working pressure bar | Working temperature C° |
|----------------------|----------------------------|------------------------------|
| 63- 630 | 2-3 | 10-55 |
| 100-1'000 | 2-3 | 10-55 |
| 160-1'600 | 2-3 | 10-55 |
| 250-2'500 | 2-3 | 10-55 |

| Flow Rate Liter/h | Dimensions mm | Weight kg |
|----------------------|------------------|--------------|
| 63- 630 | 1'235x800 | 55 |
| 100-1'000 | 1'235x800 | 55 |
| 160-1'600 | 1'235x800 | 57 |
| 250-2'500 | 1'235x800 | 57 |

Flow rate measurement

For the accurate determination of additional water amount, besides the measuring of moisture, it is necessary to know the product flow rate. This function is accomplished by an appropriate integrated device based on the measuring of impact force of the flow on a diverting tray.

Working principle



The determination of wheat moisture is based on signal power attenuation measurement of microwave field crossing a portion of constant flow withdrawn from main duct. A sophisticated "bridge" system eliminates all negative influences. The signal obtained corresponds to the effective value, taking into account the specific weight and temperature, thus giving precise and reliable results.

Field bus

In the age of communication systems we cannot ignore this nowadays fundamental aspect. Three communication field busses are available:

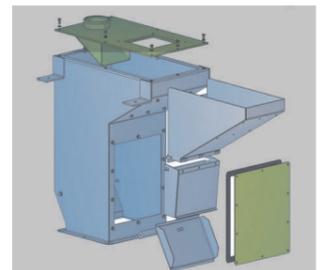
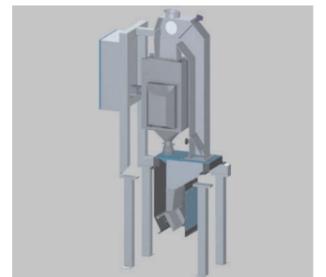
- Profibus DP
- Modbus
- TTY (current loop)

Electronics control

Developed with the latest technology in electronics components, it is fully integrated and easily accessible for maintenance and wiring. The weight measurement is done through top performance A/D converter used in the weighing systems. Input and output are protected from any wiring error and from electromagnetic noises, making these instruments really industrial.

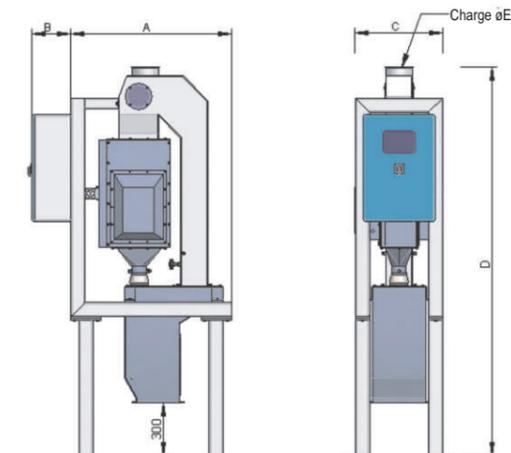
Safety

The weighing unit has been developed according to safety and sanitation requirements. Wiring, electric panel and the electronic components have been designed to pass any standard tests. On request a version of GBA according to ATEX standards for use in area 22, certified by German TÜV, is available.



Technical data

| | GBA 20 | GBA 40 |
|-----------------------------|--------|--------|
| A | 900 | 900 |
| B | 200 | 200 |
| C | 490 | 730 |
| D | 2'180 | 2'230 |
| øE | 150 | 180 |
| F | 150 | 195 |
| Flow Rate P.S. 750 kg/m3 | 20T/h | 40T/h |



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