

elmor Seed Counter Model C1

Precision Counter for small articles from 0.2 to 18 mm diameter



- **Largest product range of all commercially available seed counters**
- **Only one conveyor bowl necessary**
- **Adjustable sensitivity**

The new counting device elmor C1 is the successor of the elmor 600 counter, which has been sold world-wide during the last 20 years. The proprietary elements responsible for the accuracy and longevity have been transferred to the C1 and developed further, so that the C1 distinguishes itself from other counters by high accuracy, longevity and resistance against contamination. No calibration or maintenance is necessary.

Technical data of the elmor C1



Articles to be counted
0.2 to 18 mm in diameter.

Counting Performance

Depends on the size and material characteristics of the object. Typical values: (*)

| | |
|-----------------|------------------------|
| 0.5 mm diameter | 100,000 units per hour |
| 2.0 mm diameter | 35,000 units per hour |
| 5.0 mm diameter | 10,000 units per hour |

Accuracy

at 2 mm in diameter: less than 1/1000 error rate (*)

Counting Range

Microprocessor controlled counter, bright red display with good visibility, display and preset range 0 to 99,999

Modes of operation

Totaliser or preset counter. In preset counter mode any lot size between 1 and 99,999 can automatically be counted. With appropriate parts the C1 can be operated as a single part dispenser.

Transport of the Material

A vibroconveyor carefully transports and separates the objects. The entire size range of the objects can be processed using the same conveyor bowl with a manually adjustable sorting element. If extremely sized objects are to be counted, the conveyor bowls can be adapted individually.

Detection of Objects

Objects are detected by a very precise and, for the most part, dust-insensitive infrared light barrier. It can be cleaned by wiping two surfaces, without dismounting any parts.

Removal of Residual Substances

Small, unwanted objects in the counting material can be, for the most part, excluded from counting procedure thanks to the adjustable sensitivity of the light barrier. Example: wheat with weed seeds.

Construction:

The device consists of one compact unit. Dimensions: W x D x H: 240 x 330 x 180 mm, Weight about 10 kg

Power Supply

230 Volts \pm 10%, 50 Hz, 40 VA. Other voltages and frequencies available on request.

(*) all data is based on the use of round, clean and easily separable material.

For other types of material, the performance data may differ.



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elmor Seed Counter Model C1: Accessories

Dual Discharge Chute

When counted parts are filled directly into bags, the dual discharge chute can increase the productivity in Preset Mode (= repetitive batch counting)

Each time when a batch is counted, the outlet switches to the other side and the counter restarts automatically. The personnel working with the counter has only to place new bags at the outlets. The active outlet is marked with a LED.

The dual discharge chute is intended to be used for crop seeds or corn, but can also be used for most other seeds with 1mm diameter or more.



Carousel filler

The filling carousel, together with the counter elmor C1, allows to fill bags or containers unattended. The number of positions can be up to 25 vials or containers or up to 15 bags, depending on their size.

With the filling carousel dosing tasks can be automated easily.



Weight Checker / Weight Sorter

The combination of a C1 counter operated in single kernel dispenser mode and a "Mettler" industrial precision scale allows new applications in seed science or reduces substantially the duration of analyses which had been made manually until now. For instance:

Automatic Seed Weigher: each single seed of a lot is automatically placed on the scale. The weight of each seed is transferred to a PC where the data can be statistically processed with standard spreadsheet software.

Automatic Seed Weight Sorter: the weight of each seed is transferred to a PC where it is compared with a set-value. According to the result of this comparison, the weighed seed is then transferred into one of two containers: either sorting of good / bad parts or sorting within or outside of a given range.

Limits: the minimal seed weight is determined by the resolution of the scale. This is normally 10mg, 1mg, or even 100 Micrograms (=0,1mg).



Special Conveyor Bowls and Sorting Elements

For specially shaped parts customized conveyor bowls or sorting elements are available or can be built individually.

These are, for example:

- Bowls with specially shaped sorting bars, e.g., for the optimised singularisation of grain, corn, soy, etc.
- Sorting elements which are finely adjustable in height and width, preferably used for the separation of very flat parts
- Bowls with a special coating, resisting to abrasion or FDA compliant, like hard Nickel or Polyurethane
- Bowls with another base material. Normally made of hard-anodized Aluminium, the bowls can also be machined of Titanium, Polyamide, PEEK or other Materials.
- Conveyor bowls with the outlet at the bottom for the rapid implementation of 1000 kernel weight measurements, etc.



All mentioned accessories must be ordered separately, they are not included in the scope of delivery of the standard C1.

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