

PalDrum Filling Station

DRUM AND BUCKET FILLING



Drum and Bucket Filling

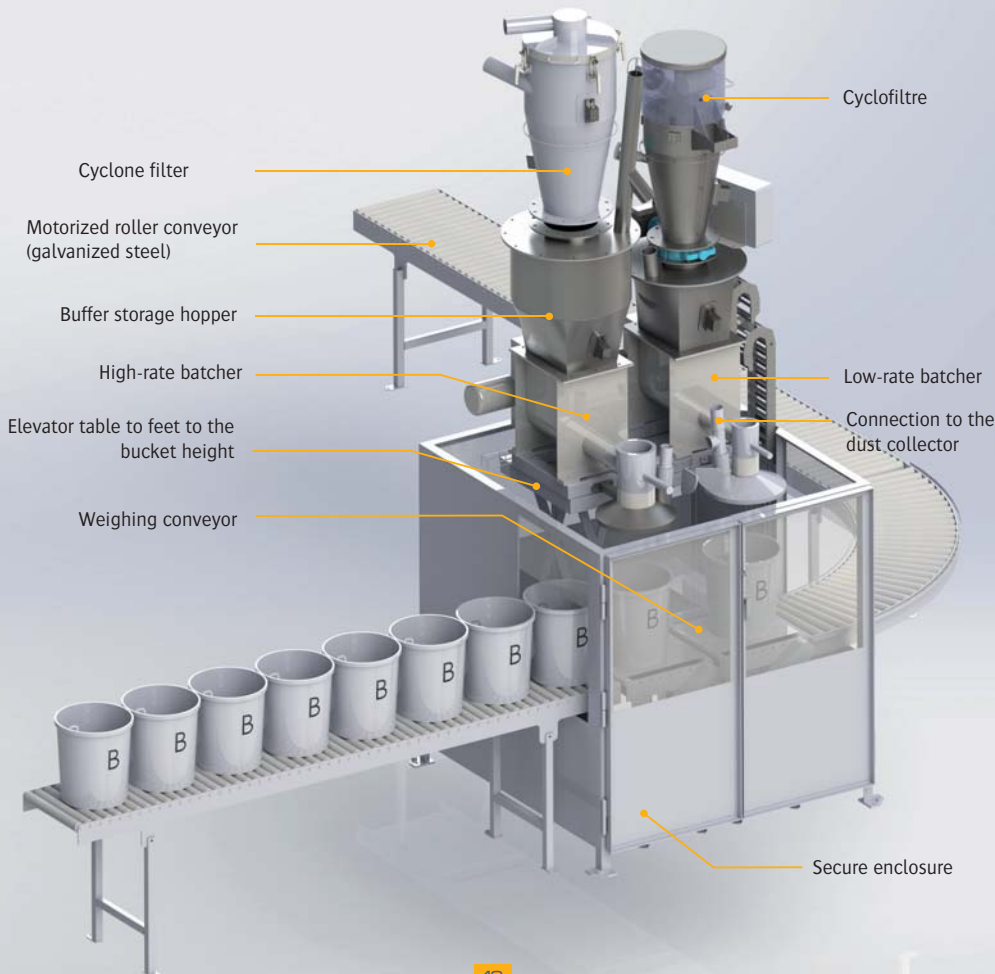
Rates: 4 000 L/hr.
Capacity: drums up to 300 kg
Objectives: Target weight product conditioning

DRUM AND BUCKET SEALED PACKAGING

Drum and bucket filling is a common operation while working with powders in pharmaceutical, chemical and food industries. However, depending on their products and applications, companies frequently need completely sealed filling stations, in order whether to protect operators, or to preserve product characteristics. PALAMATIC PROCESS offers standard and custom-made packaging solutions for drums and buckets that guarantee healthy working environment with no dust particles. We offer automatic and semi-automatic stations that can be completed by roller conveyor system.

CHARACTERISTICS

- **Material in contact with the product:** stainless steel 304L/316L
- **Feeding mode:** continuous or under a storage hopper
- **Weight or volume dosing**
- **Dosing control system** for a high level of accuracy
- **Manual or automatic dosing**
- **Dosing methods and tools adapted for a desired accuracy**



Containment and sealing of filling process



Filling rates adapted to your production requirements



Dosing system: 4 load cells, installed under the conveyor legs, automatically adjust the batcher and ensure autonomous and accurate filling



Accumulation and ejection conveyors provide buffer storage and ensure the drum transfer for further strapping process.

Advantages



DIFFERENT CONNECTION HEADS



Puyès ring ensures the fine particles suction



Inflatable seal provides a completely sealed filling



Connection plate



Connection lid with compression flange for filling on the pallet

Drum and bucket filling requires an optimal containment to prevent dust emission and product contamination by foreign bodies. In order to meet this requirement, PALAMATIC PROCESS offers several packaging versions depending on the height, accuracy and product type constraints.

Options



Drum manipulator



Conveyor

▶ MANUAL PALDRUM STATION



[+] Characteristics

- Standard packaging station
- Manual drum and bucket hanging and positioning
- Suitable for all container types

Operating sequence: Manual gravity filling station. The drums/buckets are positioned under the filling opening (its height is previously configured according to your technical specifications) by an operator. Product filling is carried out by gravity. Once the packaging process is over, the operator moves drums/buckets to the storage place.

The economic version of the PalDrum product range, this packaging station can be custom-made according to your product type, content and desired production rates.

▶ PALDRUM SEMI-AUTOMATIC STATION



[+] Characteristics

- Semi-automatic packaging stations
- Storage, evacuation, automatic product dosing
- Manual drum/bucket hanging and positioning

Operating sequence: Gravity semi-automatic filling station. The operator puts a drum or a bucket on the roller conveyor. By means of an isolating device the drum/bucket is transported to the weighing platform. A position sensor allows managing a precise drum/bucket positioning. First, it is blocked on the platform, and then weighed. The operator manually connects the drum/bucket with the filling outlet. The filling process is carried out sealingly, a vibration system is activated at the same time in order to ensure an optimal product compacting. The storage and evacuation of the drums/buckets are carried out automatically.

▶ PALDRUM AUTOMATIC STATION



[+] Characteristics

- Motorized conveying
- Automatic drum/bucket positioning at the packaging station
- Automatic hanging and dosing to the palletizing station

Operating sequence: PalDrum is completely automated drum and bucket packaging station, it allows a high performance level as there is no need of operator's intervention. From the positioning of the containers on the conveyor to their evacuation and storage, the process is carried out and controlled by machines.

The most efficient version of the PalDrum product range, this packaging station offers high filling rates and a minimum of human intervention. The automation of the process ensures the drum/bucket manipulation to quickly set them on the roller conveyor.