System- / Machine Specifications

Vertical Packaging System

for Powders and Granules

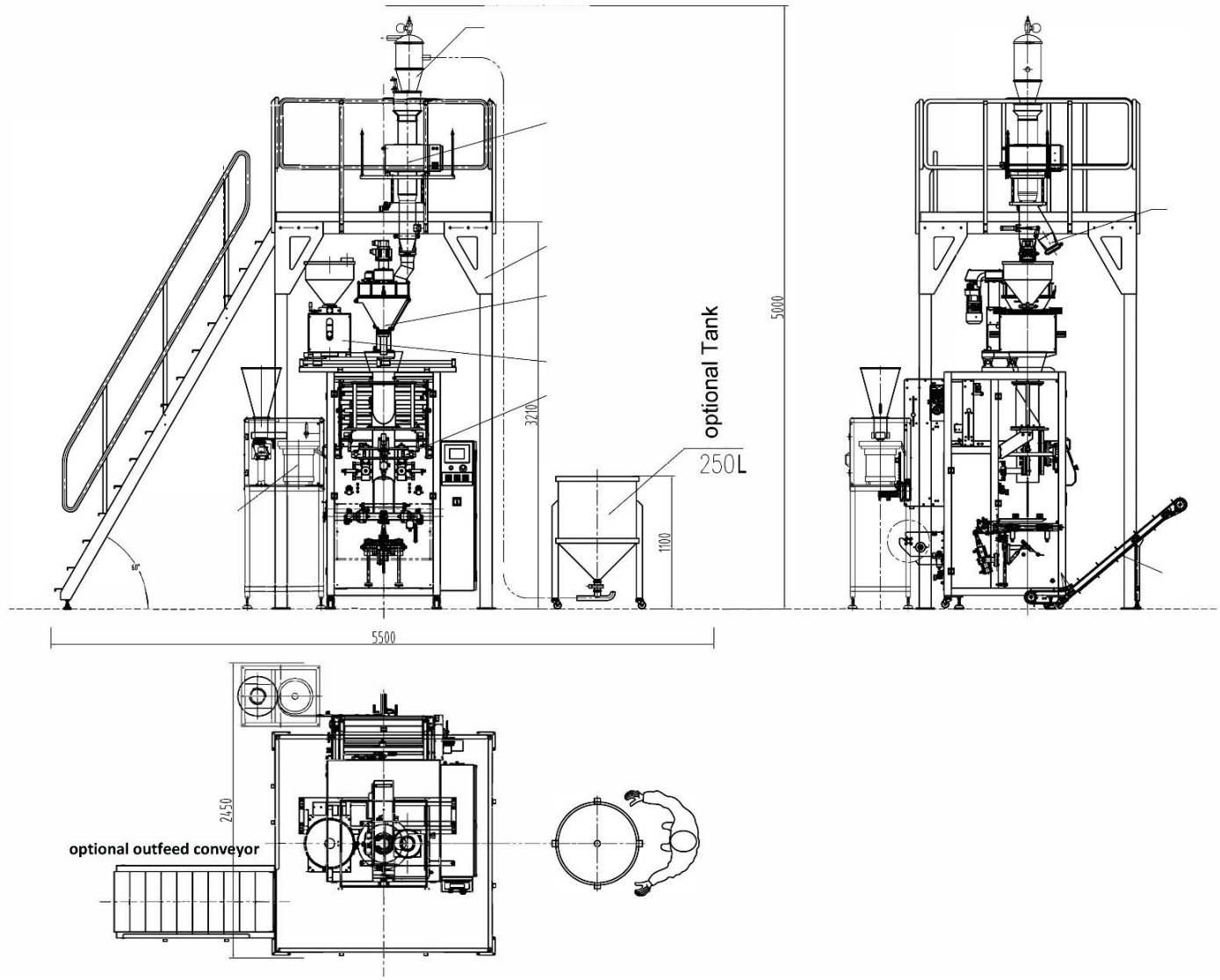


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System- / Machine Specifications

Layout



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System- / Machine Specifications

Included Machines / Modules

No.	Machine / Module Description	Qty.
1	Vacuum Conveyor	1
2	Frame for mounting the vacuum conveyor	1
3	Metal Detector	1
4	Vertical Packaging Machine with Auger Filler and Cup Filler	1
5	Gas Flushing Device	1
6	Industrial Dust Collector	2

1. Vacuum Conveyor



Specifications:

Equipped with a flexible hose and stainless steel lance.

Capacity: approx. 3–4 m³, depending on product and conveying distance; food-grade PVC pipe; housing: stainless steel SS304; air consumption: approx. 1,200–1,700 l/min.; power supply: 220 V, 50 Hz; power consumption: 5.5 kW.

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2. Frame for mounting the vacuum conveyor

For distribution to adjustable volumetric or auger dosing units.
Material: stainless steel SS304.

3. Metal Detector



Measurement in the area of the vacuum conveyor. Product particles are inspected while falling freely.

Specifications:

Detection channel diameter: 145 mm; detection channel height: 800 mm; detection speed: 9.8 m/sec.; detection sensitivity: Fe F1.0 mm; Al F1.3 mm; Cu F1.3 mm; SUS304 F1.5 mm; SUS316 F1.7 mm; alarm stop and reject sensor; ambient temperature: 0–40°C; ambient humidity: ~75%; power supply: AC ~220 V, 50 Hz; power consumption: 500 W.

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System- / Machine Specifications

4. Vertical Packaging Machine with Auger Filler and Cup Filler



Vertical packaging machine specifically for coffee beans AND ground coffee, with two separate dosing systems (powder and granules) for coffee stand-up pouches with one-way valve. Including valve feeding and alignment system.

Vertical packaging machine specifications:

Suitable for e.g. 100 g, 250 g, 500 g and 1,000 g (film widths: 230, 290, 400 and 460 mm respectively), including the four format sets required for these sizes. Pouch dimensions (flat): L 100–320 × W 100–180 mm; maximum machine cycle rate at no load: 30 pouches/min. Servo-driven film pull, pneumatic sealing unit, 7" colour touchscreen, OMRON PLC, Schneider, Wöhner and OMRON electronic components, stainless steel version SS304, OMRON temperature control. Including a simple hot-stamp printer for date, batch/shift number, etc. (optional: thermal transfer printer on request), anti-static module, 4 format sets in total, stand-up pouch module (gusset device) and flat-bottom module (bottom seal positioned close to the bottom – depending on the film material).

Auger filler specifications: PLC control, hopper that can be opened for easy cleaning, filling range: 50–1,000 g, accuracy: +/- 1–3%, SCHNEIDER servo motor, 220 V, 1 kW.

Cup Filler: Granule dosing system. Easy changeover between the dosing systems.

Outfeed conveyor: 30 m/sec.

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NOTE: For the larger pouches, the double-pulling function (double film pull) is used to maintain the compact machine size (alternatively, a single film pull can be used when a larger machine is employed). The volumetric dosing unit is also triggered twice for the larger weight; otherwise, changing the volume cup would be too time-consuming, while retaining the large cup for smaller volumes/weights would result in insufficient accuracy.

5. Gas Flushing Device

Module for blowing air or nitrogen into the pouch.

6. Industrial Dust Collectors

Automatic industrial dust collector that can be connected to the dust hoods of the auger fillers to capture dust during the filling process.

Specifications: Inlet air flow: 600–1,000 m³/h; Efficiency: > 99.5 per cent; Operating pressure: 940–680 Pa; Operating noise level: <68 dB(A); Inlet diameter: 100 mm; Unit dimensions: L520 × W505 × H1400 mm; Weight: 130 kg.

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