VC999 TD60 Tray Denester

The VC999® TD60 tray denester destacks prefabricated trays. The device is designed as an add-on for the single conveyor VC999 TS2000 and VC999 TS2500 inline tray sealing machines and can destack two trays per cycle.

The VC999 TD60 tray denester destacks up to 60 trays per minute. The operational capacity of the tray denester is primarily determined by how well the trays can be destacked; the specified values can only be achieved with an optimum design of the destacking cams.

The trays are loaded into a hopper from where they are individually removed by a vacuum suction plate and placed onto a conveyor belt. To separate the trays, a blade mechanism - the separation slide system – is inserted into the space between each tray and prevents the vacuum plate from removing more than one tray at a time. Alternating between two separation slides ensures that the trays are separated and the hopper is continuously refilled with trays.

The VC999 TD60 has two parallel, adjustable hoppers in which trays can be stacked up to one meter in length. A lamp illuminates and flashes if the trays in the hoppers fall below a certain number. It extinguishes once the hoppers have been refilled.

The VC999 TD60 can be integrated into production lines and has respective inputs and outputs in the PLC (integration in an Emergency Stop circuit, reception of external start and stop signals, output of a ready-for-operation signal, etc.).

To support increased operator autonomy, two laterally reversed feed belts 800 mm x 1200 mm (W x L) can be added which additionally load trays into the hoppers.

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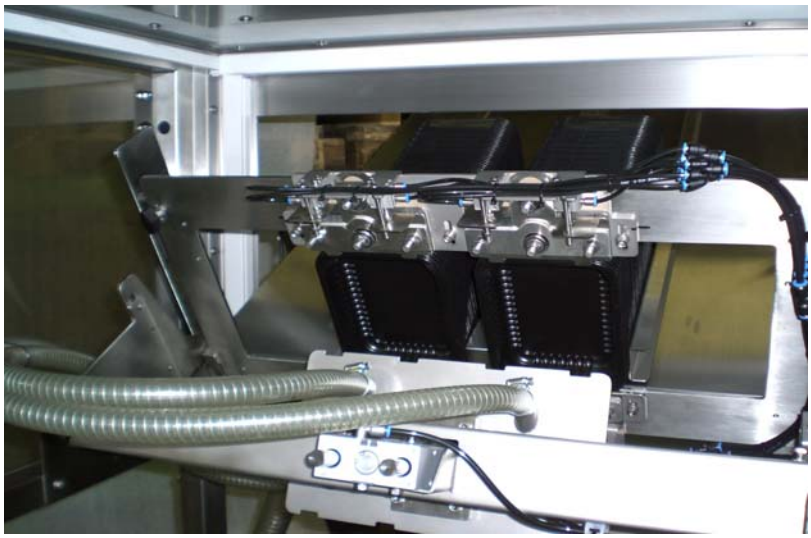

Technical Data

Machine dimensions (L x W x H)	1000 x 1600 x 1770 mm
Hopper length	2 x 1000 mm
Optional hopper add-on	2 x 800 mm x 1200 mm
Signal lamp	Single stage
Operation	Emergency Stop, Start, Stop, Reset button
Set-up mode	Pulse button for step mode to set-up
Control	Mitsubishi
Minimum tray size (L x W x H)	90 x 90 x 8 mm
Maximum tray size (L x W x H)	263* x 230 x 100 mm *(*leading side in the hopper)*
Vacuum suction plate	Side channel blower
Vacuum suction cup	Vacuum pump
Vacuum side channel blower capacity	140 m3/h, 0.7 kW (Busch Samos SB 0140 0)
Vacuum pump capacity	17 m3/h, 0.55 kW (Gardner Denver Pico 15 VLT)
Degree of protection control box / terminal / pneumatics	IP 65 (except the vacuum pump)
Compressed air	6 bar, operating pressure 4-5 bar with pressure switch
Pneumatics	Festo, with maintenance unit
Supply voltage	100-240V~ 50-60Hz
Machine safety	Protective lid with safety switch, Emergency Stop
Weight incl. pump	Approx. 180 kg

Subject to technical changes *15.11.07 / SMA*

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