



MULTIVAC T300

T 300 Tray sealer

Automatic tray packaging in the smallest of spaces



MULTIVAC
BETTER PACKAGING



T 300 Tray sealer:

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The especially compact T 300 tray sealer packs products of any type automatically, hygienically and economically. The T 300 is designed for a wide spectrum of trays, and incorporates MULTIVAC's groundbreaking hygienic design as well as our superlative technology and quality standards. As with all MULTIVAC solutions, you benefit from comprehensive packaging expertise, individual advice and first-class, worldwide service.

Simple to operate and easy to clean, the highly flexible T 300 sets the standard in its segment of the market.

The automatic T 300 tray sealer offers the following advantages:

- A space-saving machine design - despite an overall length of only 2.45 m, the T 300 has an infeed line with two loading positions to enable ergonomic insertion of the trays. The infeed line can be optionally expanded with two or four loading positions.
- Large base format of 420 x 300 mm, divisible for up to three uses, with a maximum tray height of 110 mm
- A high-quality and durable stainless steel construction
- MULTIVAC's consistent hygienic design for optimised ease of cleaning
- Fast format change variability
- Ease of use with a touch display HMI 2.0 user interface
- Energy efficiency with electric drive systems for the tray transport, lifting unit and film trim winder
- Suitable for the production of packaging with a modified atmosphere (MAP) and controlled oxygen content (optional)

Application

Packaging in trays

The T 300 is an automatic tray sealer. The tray transport system employs chain-guided driver rods on both sides and is therefore particularly simple and flexible in its usage. With at least two loading positions on the infeed line, the T 300 enables ergonomic loading of filled trays. As an option, empty trays can also be loaded by an automatic tray denester and inserted in the infeed line.

As the packaging material, prefabricated, rigid, sealable trays are used, which are sealed with reel-fed top films. For the processing of a register printed film, a register mark control system is available. Various cutting dies permit the manufacture of tray packages both with protruding film (outside-cut) and without it (inside-cut).

The T 300 produces the required atmosphere for the product in the pack by means of evacuation and gas flushing. MULTIVAC's proven sealing technology guarantees the safe and secure sealing of the packaging material. This is achieved with high sealing pressures and precisely definable sealing temperatures.

The economical use of inert gases in the production of MAP packaging is a further advantage of MULTIVAC's tray sealer technology.





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In the T 300, we have combined our consistent MULTIVAC hygienic design with leading control technology, bringing these machine standards to compact automatic tray packaging solutions for the first time. The space-saving machine design permits the utilization of a large infeed line with at least two loading positions, even though the entire length of the machine is only 2.45 m.

With a quick-changing die system, as well as simplified adjustment of the tray infeed, format changes are particularly quick and easy to perform on the T 300.

Advantages

MULTIVAC hygienic design

MULTIVAC packaging machines are designed to meet the highest hygienic standards. Hygienic design and high quality materials ensure reliable and fast cleaning. The smooth, sloped external surfaces – without recesses, corners and edges – are easy to clean. The inside of the machine has also been optimised for hygiene, such as the transport chain, the chain guide and all drive systems. Easy-to-open side panels and removable protective covers make the entire machine interior perfectly accessible for cleaning.

IPC control with HMI 2.0 user interface

The graphically displayed HMI 2.0 user interface on a large touchscreen enables the intuitive and safe operation of the T 300. A program memory of more than 200 recipes and a choice of over 40 operating languages ensure reproducible packaging quality, even when less experienced operators are using the machine. The IPC touchscreen also allows for critical settings such as vacuum, gas, seal time, etc. to be password protected.

A wide variety of help functions with video clips support operators in their daily work.

Operating safety

The T 300 features a machine design emphasizing maximum operating safety. This is ensured by the consistent use of protective covers, sliding guards, as well as light barriers and magnetic read switches. The T 300 conforms to all relevant safety guidelines.

Quick Die changing system

The quick-changing die system makes converting the machine for processing of different tray formats a simple and easy task. After removing the protective cover, tray-specific components can be easily removed from the machine and exchanged quickly without having to use tools. With very little effort, the T 300 is once again ready for production.

Energy efficiency

Components that are relevant to energy consumption, such as the transport system, lifting unit and film trim winder, have been equipped with energy-efficient electric drives on the T 300.

The cooling water circuit of the T 300 can be optionally equipped with a water recycling and chilling unit built into the machine which lowers the use of water. The T 300 would then require no fresh water connection.



Advantages

Variability through individual configuration

The T 300 can be customised for the individual requirements of the customer. The T 300 is suitable for the manufacturing of conventional tray packages, including packaging with modified atmosphere packs (MAP) or skin packs (VSP), and is able to process the most diverse materials, such as multiple-chamber trays or upper film webs such as shrinkable film.

The quick changing die system makes format changes simple and easy to perform. The infeed line can be optionally expanded with 2 or 4 loading positions. This enables efficient manual loading as well as the integration of an automatic product feeder such as a scale or a volumetric valve for the dosing of liquid.



Integration of an automatic tray denester

The T 300 can be optionally equipped with a tray denester that separates stacked trays and inserts them in the infeed line. The T 300 can thus be expanded into a very compact, automatic tray packaging line.

Integration of labelling and inspection systems

The machine control of the MULTIVAC line elements, such as labelling and quality control systems, can be directly integrated in the IPC control of the T 300, thus ensuring simple and safe operation of the entire system. The synchronisation of line modules by other manufacturers is also possible, due to the open machine control architecture.

Equipment options
Gas flushing system (MAP) for packs with modified atmosphere
Register mark control for packs with a register printed upper film web
Expansion of infeed line with 2 or 4 loading positions
Inside-cut cutting system for packaging without protruding film
Integrated vacuum pump (63, 100 m ³ /h), external vacuum pump (150 m ³ /h)
Version with rollers for easy mobility
Water recycling and chilling unit

Technical data

Technical specifications of the T 300	
Tray format:	420 mm x 300 mm, divisible for up to three uses
Tray height:	≤ 110 mm
Cycle output:	12 to 30 packs per minute (6-10 cycles/min)
Max. film width:	500 mm
Max. diameter of film roll:	350 mm
Machine control:	IPC 06 with 12 inch LCD touchscreen display and HMI 2.0 graphic user interface
Cutting:	Outside-cut Inside-cut (optional)
Services connections:	<ul style="list-style-type: none"> - Electrical: 400V/50Hz, 3x220V/60Hz - Compressed air: min. 7 bar*) - Cooling water: min. 1,5 bar*) - Inert gas: min. 3-6 bar*) - Vacuum pump: 63, 100 m³/h integrable 150 m³/h external
Machine dimensions (LxBxH)	2.450 x 1.100 x 1.640 mm
Machine weight:	ca. 1.100 kg



BETTER PACKAGING

Our goal is for MULTIVAC packaging solutions to fulfil your requirements reliably and efficiently. This is why a MULTIVAC team of experts offers you a wide range of technical support and services, from the initial consultation to the supply of all spare parts after the MULTIVAC packaging system is put into service.

Comprehensive advice

From the initial idea to the first test run - a competent and experienced project team will be at your side during the implementation of your packaging solution, a team which will accompany you from the first consultation to the final completion of the packaging project.

Training

We offer you comprehensive training courses so that you can become familiar with the operation, maintenance and care of your machine. This empowers you to realize the full potential of your MULTIVAC packaging solution.

Service

Worldwide there are over 800 MULTIVAC experts in the field: around 300 sales advisors to develop the most efficient packaging solutions with our customers, as well as more than 500 service technicians to assist with service support, retrofitting equipment and training.



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