

Packaging in trays

T 700 Traysealer

MULTIVAC is a major manufacturer of automatic traysealers. Each of these machines is individually designed to the customer's requirements in terms of tray and product infeed, discharge of packs, marking and quality inspection. It dovetails seamlessly into your new or existing production environment, either as a stand-alone machine or as part of a fully automated packaging line. Reliability, durability and comprehensive service make MULTIVAC a resilient link in your production chain.

Machine classes

What are your requirements of a traysealer? A small footprint? Quick format change? Special tray shapes? Maximum cycle output? Highest level of efficiency? MULTIVAC offers a uniquely wide range of machines to meet your ideal requirements.

The table shows only an extract from the MULTIVAC traysealer portfolio; we also offer higher-output models and more compact machines.

	T 600	T 700	T 800
	<p>T 600</p> <p>Smallest traysealer, which can be integrated in lines</p> <p>Small to medium batches, fast product change</p>	<p>T 700</p> <p>T 700 XS T 700 S T 700 S two-track T 700 T 700 two-track</p> <p>Highest output in the smallest space</p> <p>Large batches, fast product change</p>	<p>T 800</p> <p>T 800 S T 800 S two-track T 800 T 800 two-track</p> <p>Highest output in the smallest space</p> <p>Large batches, fast product change</p>
Output (cycles/min)	★★★★★	★★★★★	★★★★★
Equipment options	★★★★★	★★★★★	★★★★★
Die size	★★★★★	★★★★★	★★★★★
Max. pack tracks	1	2	2
Forms of packaging			
Tray material	Rigid film, aluminium, carton, foam	Rigid film, aluminium, carton, foam	Rigid film, aluminium, carton, foam
Max. tray depth	110 mm	110 mm	130 mm

T 700 Traysealer

With the T 700 we offer a traysealer series which is optimised for medium to large batches and quick product changes. The T 700 models are mainly directed at medium-sized and industrial-scale food producers and packers.

The T 700 covers a wide spectrum of applications, particularly in the food packaging sector. In addition to meat, sausage and convenience products, it is also suitable for packing seafood/fish and cheese, as well as fruit, vegetables and salad products.

The T 700 is available in different versions, which can be perfectly configured with equipment options for the particular packaging task.

Version	T 700 XS		T 700 S			T 700		
	Standard	Smart Sealing	Standard	Smart Sealing	2 track	Standard	Smart Sealing	2 track
Machine length (mm)	approx. 2,920		approx. 2,920			approx. 3,345		
Basic format (mm)	515 x 275		560 x 340			690 x 340		
Pack tracks	1		1		2	1		2
Output: Sealing only (cycles/min)	up to 15	up to 20	up to 15	up to 20	up to 15	up to 15	up to 20	up to 15
MAP output (cycles/min)	up to 12	-	up to 12	-	up to 12	up to 12	-	up to 12

Advantages

- Compact, inline traysealer series, which can be designed as multi-track.
- 3 basic format sizes can be selected depending on the use design
- MULTIVAC Hygienic Design™ for maximum hygiene and the simplest cleaning
- Die change, including heating-up, in less than 15 minutes
- MULTIVAC Smart Sealing™ for packing at a particularly high cycle output when packaging without modified atmosphere.
- Cycle output: Sealing only: up to 20 cycles per minute (with MULTIVAC Smart Sealing™)
MAP: up to 12 cycles per minute
- Reliable and ergonomic operation as regards recipe change, film change and die change
- IPC control with HMI 2.0 graphic user interface
- Robust and durable stainless steel construction
- Energy-efficient servo drive
- Capable of complete wash-down (protection class IP 65)



Applications

The T 700 can be used for packing food, healthcare and lifestyle products, as well as consumer and industrial items.

The T 700 covers a wide spectrum of applications, particularly in the food packaging sector.

Application	T 600	T 700	T 800
Tray material	Rigid film, aluminium, carton, foam	Rigid film, aluminium, carton, foam	Rigid film, aluminium, carton, foam
Max. tray depth: (mm)	110	110	130
Inside cut	•	•	•
Outside cut	•	•	•
Sealing only	•	•	•
Gas purging	•	•	•
MAP low O ₂	•	•	•
MAP high O ₂ with VBS96 (no pump necessary in special design for oxygen!)	•	•	•
Skin	•	•	•
Mirabella		•	•
With product protrusion	•	•	•

Tray transport systems

The T 700 has a precise and reliable tray transport system, which can be designed as a one-track or two-track system, and which ensures that the trays and products are transported gently. A tray gripper with servo drive conveys the loaded trays to the die, and at the same time it transports the sealed trays out of the die. Thanks to the servo drive, all phases of the transport procedure can be controlled precisely through the HMI and can be stored in the product recipe. This ensures that they are matched perfectly to the trays used and the product to be packed.



Loading and tray infeed

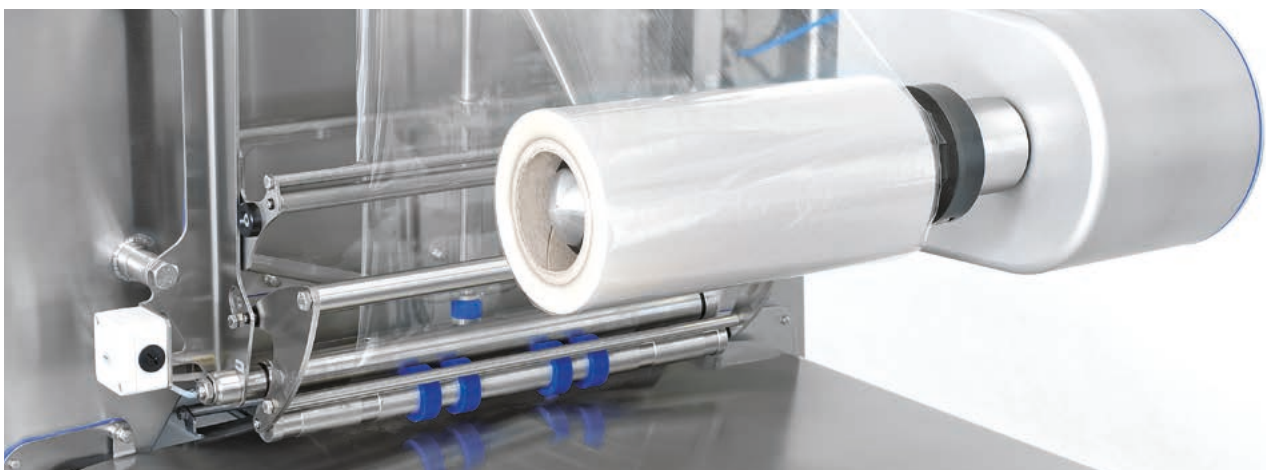
For loading and infeed of the trays, the T 700 can be equipped with MCS or drag chain infeed systems (MDC) from MULTIVAC. Denesters can be integrated on both infeed systems. This ensures that all requirements for an efficient loading procedure can be met. Existing conveyor systems and denesting solutions can also be easily combined with the T 700. With one-use denesters and a two-track design of the T 700, a line diverger can be integrated which distributes the trays evenly from one pack track into two pack tracks.

Loading system	MCS	MDC			
	Continuous	Continuous	Pack row advance	Partial format advance	Format advance
Manual	•	•	•	•	•
Robot		•	•	•	•
Moving filler		•			
Static filler			•	•	•
Multihead weigher			•	•	•
Portioning into pack	•				

Tray discharge

With the T 700, trays are discharged continuously or on a cycle basis via a transport conveyor or Intralox transport conveyor. The product discharge can be selected according to the format design, and the downstream components can be selected so that uniform product flow is ensured in the line. This includes the optional integration of a line converger that guides the two pack tracks of the T 700 back together for the downstream components.

T 700	Discharge system		Mode of operation	
	Roller conveyor	Intralox transport conveyor	Continuous	Cyclical
One-track	•		•	•
Two-track		•	•	•
Two-track with line converger		•	•	



Film handling, register mark control

The T 700 is equipped with a 3" film mandrel which takes web rolls up to a diameter of 350 mm and a weight of 50 kg. A 6" adapter is available as an option.

A film trim winder ensures precise tensioning of the film trim lattice, and it winds this up in a compacted form. This means that the film trim winder has a large capacity. The mechanical lock mechanism makes operation simple and maintenance-free. A register mark control is available as an option for the T 700.

Die change

The die of the T 700 can be changed quickly and easy for processing different tray formats. A person requires less than 15 minutes and can perform the replacement without tools. A changing trolley with a service function is available for a particularly reliable and efficient die change. An optional shelf system serves as storage for other die sets, and it can be equipped with a preheating station to reduce downtime.

Changing the complete die

The lifting unit moves the die bottom section for the change up until the die is closed. The die top section is automatically unlocked and moves with the die bottom section down into the changing position. The complete die can be pulled onto the die changing trolley. The new die is slid as a complete unit from the die changing trolley into the traysealer.

Changing the die bottom section

The die bottom section is automatically unlocked for replacing the sealing gaskets or for cleaning, and it can then be pulled onto the die changing trolley.

Features

	Standard	Option
Tray denester		•
Infeed with drag chain infeed		•
Infeed with MCS		•
Buffer conveyor		•
Line diverger		•
Hinged safety guards made of stainless steel	•	
3" film mandrel	•	
6" adapter for film unwind		•
Register mark control		•
Gripper system with servo drive	•	
Lifting unit with electric drive	•	
IPC control with HMI 2.0	•	
MULTIVAC Smart Sealing™		•
Evacuation system		•
MAP equipment for O ₂ < 21% (VBS 91)		•
MAP equipment for O ₂ > 21% (VBS 96)		•
Tray discharge one-track with belt conveyor	•	
Tray discharge two-track with Intralox transport conveyor	•	
Line converger 2 to 1		•
Die changing trolley		•
MULTIVAC Tray Carrier (MTC)		•

Technical specifications

Version	T 700 XS		T 700 S			T 700		
	Standard	Smart Sealing	Standard	Smart Sealing	2 track	Standard	Smart Sealing	2 track
Basic format (mm)	515 x 275		560 x 340			690 x 340		
Max. tray depth: (mm)	110							
Number of pack tracks	1	1	1	1	2	1	1	2
Output: Sealing only (cycles/min)	up to 15	up to 20	up to 15	up to 20	up to 15	up to 15	up to 20	up to 15
Output: MAP (cycles/min)	up to 12	--	up to 12	--	up to 12	up to 12	--	up to 12
Max. film width: (mm)	400							
Max. weight of web roll (kg)	50							
Max. web roll diameter (mm)	350							
Vacuum pumps external (m ³ /h)	160 - 600							
Machine length (mm)	approx. 2,920					approx. 3,345		
Machine width (mm)	approx. 985							
Machine height including control terminal (mm)	approx. 2,010 ± 50							
Working height (mm)	920 ± 50							
Weight (kg)	approx. 1,200							
Power supply	400 V / 50 Hz, 18 A, 4.2 kW 3x 230 V / 60 Hz, 24.6 A, 4.2 kW							
Compressed air supply	7 - 10 bar, consumption depends on the equipment on the machine							
Cooling water supply	1.5 - 4.5 bar, consumption depends on the equipment on the machine							

Dimensions

