VZT Preform feeding system | The Original

From one source
Preform tipper | Preform feeding system | Clamping conveyor
The original

For more than three decades, M. Tanner AG has been developing, designing and manufacturing preform feeding systems for PET stretch blow machines worldwide. Literally, VZT stands for "Vorformling-Zuführanlage-Tanner" (Tanner preform feeding system) but the VZT feeding system today also stands for up-to-the-minute technology, and the highest quality and production efficiency in the drinks market.

Tanner VZT models

Standard system
VZT-1820 (up to 26,000 p/h*)
VZT-2535 (up to 46,000 p/h*)
VZT-3545 (up to 58,000 p/h*)
VZT-5063 (up to 68,000 p/h*)
VZT-6172 (up to 85,000 p/h*)

LS Preform Line
LS18R (up to 20,000 p/h*)
LS25R (up to 28,000 p/h*)
LS25 (up to 32,000 p/h*)
LS35 (up to 42,000 p/h*)

*TApprox. values PCO (project-based clarification)
SBT Silo

Efficient loading
We can offer you various sizes of silo. We can choose the perfect silo and the appropriate preform tipper (see separate brochure) for you, according to output or the required loading intervals.

Viewing window with level monitor
The SBT Tanner silos are equipped with two diagonally aligned windows to enable you to easily monitor the silo contents. The silo level monitor is also fitted as standard to today’s systems. This enables fill level display and automatic loading by the preform tipper.

Models
SRT silo rucksack
Volumes: 2,300 litres / 2.3 m³
W x D: 1994 x 2000 mm

SBT-22 silo belt
Volumes: 3,000 litres / 3 m³
W x D: 2004 x 2104 mm

SBT-32 silo belt
Volumes: 5,000 litres / 5 m³
W x D: 2350 x 3004 mm

SBT-33 silo belt
Volumes: 6,000 litres / 6 m³
W x D: 3000 x 3004 mm

Two viewing windows for monitoring silo
The elevator is positioned and applied in a way that is adapted to the layout and size of the system. The quality of the Tanner elevator lies in the detail. The Tanner elevator is unique because it has a pressure belt to prevent preforms from falling back, a grate to enable simple dirt separation, different duct sizes for various preform types, and a duct wiper to ensure even loading of the duct.

Facts
- Pressure belt to prevent preforms from falling back
- Wiper to ensure even loading of the duct
- Grate to enable simple dirt separation
- Optional Plexiglass cover with or without safety switch
- Optional pneumatic emptying for efficient emptying of the silo and the system
- Length is adapted to the layout. Optional elevator for multiple levels.
- SEW drive with external fan
RSTI Roller sorter

Tanner RST models

The length of the roller sorter is determined by the required system output. The roller sorters with a length of 1.8 and 2.5 metres are used for low outputs. The 3.5 and 5 metre roller sorters are intended for lines with an output between 35,000 and 60,000 preforms/hour. For high speed output of more than 60,000 preforms/hour, Tanner can offer the 6m roller sorter, which can also handle outputs of up to 85,000 preforms/hour (PET bottling lines) or up to 100,000 preforms/hour for preform inspection systems.
The heart of the system

With over 30 years’ experience and more than 3,000 systems in operation worldwide, the Tanner roller sorter is equipped with various features to achieve top-level efficiency. Even at the output and transition to the discharge rail, the Tanner RSTI boasts many unique and patent-protected features.

Benefits to you

- 12-part kicker wheel enables smooth transition to the discharge rail
- Automatic jam relievers prevent pile-ups
- Camera detection of incorrectly positioned or nested preforms
- Blow-out of irregular preforms
- Height guide for automatic end clamping of preforms
- Sensor monitor for regulating the jam quantity and the optimum fill level of the roller sorter
- Remote control direct on the roller sorter
AST Discharge rail

Discharge rail with special surface

Gravity causes the preforms to slide from the roller sorter over the discharge rail and into the blow moulding machine. The width of the rail and the height guide can be adjusted using simple handwheels. For several preform changes, digital displays can also be used to ensure reproducibility.

Summary of benefits to you

- Special surface for the slide angle
- Quickly and easily adjustable
- Optional digital setting display
- Flexible height guide adapted to the preform design
- Connection to any blow moulding machine possible
- Optional Plexiglass housing
- Drawer for emptying the system
Tanner Clean Line

Our Clean Line package, your quality improvement

To keep your PET bottling line as clean as possible, we provide our customers with a diverse range of options. We offer Plexiglass covers for the elevator, conveyor belts and return belts. Our customers have the option of covering the feed rail with a Plexiglass casing. To maintain accessibility, the casing is designed with windows that can be opened. The silo belt or the silo rucksack can be equipped with a cover. The covers are opened and closed electrically using a cable pull.

Clamping conveyor – the heart of the Clean Line version

The new Tanner technology lies at the centre of the Clean Line version (see separate brochure). While the covers prevent any additional foreign particles or dust from entering the system, the clamping conveyor ensures that any potential foreign particles which may enter preform through the tipping process are blown out of the preform.

Clean Line options

- Electric cover for the silo belt or silo rucksack
- Grate between the silo belt and the elevator for separating out foreign bodies
- Plexiglass cover for the elevator, conveyor belt and return belt
- Plexiglass covering for the discharge rail with opening windows for easy access

OHT clamping conveyor – the heart of the Clean Line version

- Overhead preform guidance for separating out foreign bodies
- Overhead air rinser for blow-out with ionised air and extraction of foreign particles
- UVC irradiation for destroying germs on the thread and opening
- Overpressure in the clamping conveyor and the discharge rail to the blow moulding machine downstream of the overhead air rinser
- Optional camera inspection of the preforms (opening, out-of-roundness, support ring)
- A separate brochure on the OHT clamping conveyor is available.
TANNER preform feeding systems for PET stretch blow machines or PET preform test systems.

1985: 500 preforms/hour – 2011: 80,000 preforms/hour

More than 30 years ago, Tanner designed and manufactured PET preform feeding systems for PET blow moulding machines. The first systems were developed for an output of 500 preforms per hour. Since 2012, the Tanner VZT-6172 preform feeding system has been able to feed over 80,000 preforms per hour to the PET stretch blow machine.

30 years' experience, over 3'000 systems in use

Since the 1st Tanner preform feeding system was delivered in 1985, more than 3'000 systems in every output class have been brought into service worldwide. In addition, preform tippers and components for UVC irradiation and preform cleaning have also been included in the product range.

Tanner systems for preform test systems

As well as being suppliers to the PET bottle manufacturing market, Tanner also supplies feeding systems for PET preform test systems. Whether offline (with a Tanner tipper) or inline, directly from the preform injection moulding machine, Tanner supplies the relevant concept that is tailored to the customer’s requirements. From October 2011, IMD Vista (www.imdvista.ch) is the official partner of Tanner in the field of camera preform testing.

The challenge of preform handling and cleaning

Thanks to many years of experience, Tanner has succeeded in meeting the ever greater challenges it faces (with regard to output, efficiency, changes to the preform, climatic conditions, preform cleaning and inspection). In the field of preform cleaning and inspection, the clamping conveyor is unique worldwide.