



TIPPER TIE™

TTStick

Automated Hanging System



Great production flexibility
through high automation

TIPPER TIE TTStick

Automated hanging technology



JBT Tipper Tie
TTStick

Flexibility

Flexibility in production combined with a high degree of automation is what characterizes the new TTStick. With this machine, TIPPER TIE offers state-of-the-art suspension technology for an even more efficient process. It is ideal for producing portioned or strings of sausages that need to be hung.

The TTStick safely and precisely suspends all sausages with plastic, fibrous, and collagen casings of calibers Ø 20–120 mm with a maximum sausage/string length of up to 800 mm. Depending on the product, it is capable of hanging up to 100 loops/minute on the smoking sticks.

The machine can now accommodate up to 26 empty smoking sticks in the magazine, while the customer can still decide between 3 different finished buffer sizes (8, 12 or 16 completed sticks). This is how TIPPER TIE provides more customer flexibility.



Motorized smoking stick magazine accommodates up to 26 smoking sticks

Technical Highlights

The TTStick is connected to one of TIPPER TIE's high-speed automatic clippers, either a TT1512 or TT1815. The loops are transferred directly from the automatic string loop feeder of the Double Clipper without any handling required. The string of sausages is then automatically precisely placed on the smoking stick by the TTStick.

The controls for both clipper and TTStick are managed by the clipper Human Machine Interface or HMI. Individual positioning of the string loops can be specified and saved in the recipe section of the HMI, saving time, and helping to achieve up to 25% higher utilization of the smoking stick (and subsequently the smoking trolley, cooking, or smoking chambers) leading to more production capacity as well as more efficient production.

A key aspect of this is the efficiency of the smoking stick replacement system, it is almost unbeatable. The TTStick has a servo driven smoke stick exchange instead of pneumatics, which allows more control over the smoke stick exchange with

less noise and vibration. When the specified number of loops are precisely located onto the smoking stick, the now filled stick is ejected into a buffer in only 600 ms, and a new one is supplied from the magazine. This means uninterrupted production even at high speeds. The filled smoking stick is now ready to be moved to a rack or trolley either by the operator or with an automatic system for even greater savings. Additionally, the full stick buffer has a safety stop which is activated as soon as the delivery table is full. A visual signal warns the operator in advance to help prevent unnecessary stoppage.

This all means that that the TTStick ensures high production with little down time while increasing the utilization of drying rooms and smoke houses, all with a minimum of operator interaction.

Die Maschine ist konzipiert für die Andockung an einer TT1512 oder TT1815. Beide lassen sich ohne großen Aufwand mit dem TTStick verbinden.



**JBT Tipper Tie
TT1512**

Handling

Easy handling, fast production, improved efficiency, and productivity: This is the result of the integration between the TIPPER TIE TTStick and the high-speed double clipper from TIPPER TIE.

To change the loops or clips, only the string loop housing needs to be opened. The TTStick does not have to be disconnected for that. To achieve even shorter downtimes, the double clipper is equipped with a parallel turret. This enables new casing to be added while the machine is running, and the casing change to take place without opening the upper section of the clip machine. This results in a casing change taking just a few seconds, leaving your production virtually uninterrupted.

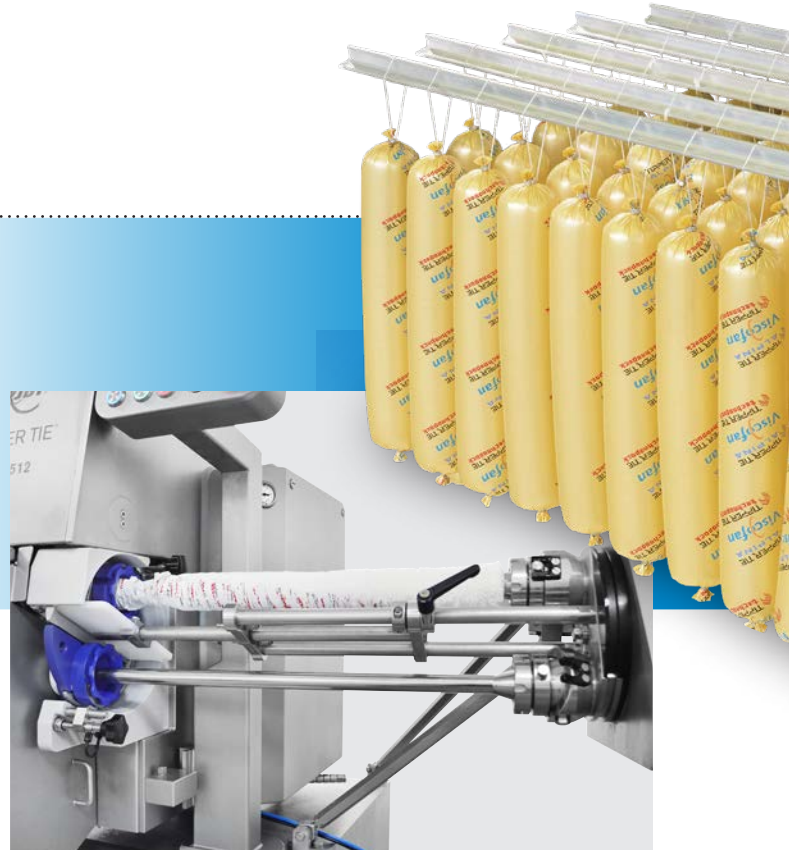
Additionally, transportation and handling have been optimized as well. The TTStick is provided with wheels on the machine footing. This allows you to easily move the machine without additional help.

Control

TIPPER TIE's TTStick is operated and controlled using the HMI from the TT1815 or TT1512 automatic double clipper. This means the machines are perfectly integrated from a control's standpoint. This gives the operator a very simple and clear overview of both machines and makes recipe management and product changes very easy.

This innovative operating system with easy-to-understand pictograms is also state-of-the-art in terms of efficiency. For example, the number of sausages per smoke stick and their distance/spacing can be set easily. An integrated large internal program memory ensures that many different programs can be stored without any problems, and any operators already familiar with the TT family of automatic clipping machines will easily learn the TTStick controls.

The controls themselves are driving maintenance-free servo motors in the TTStick to ensure fast, efficient, and repeatable operation.



Fast clip and loop changes thanks to parallel turret



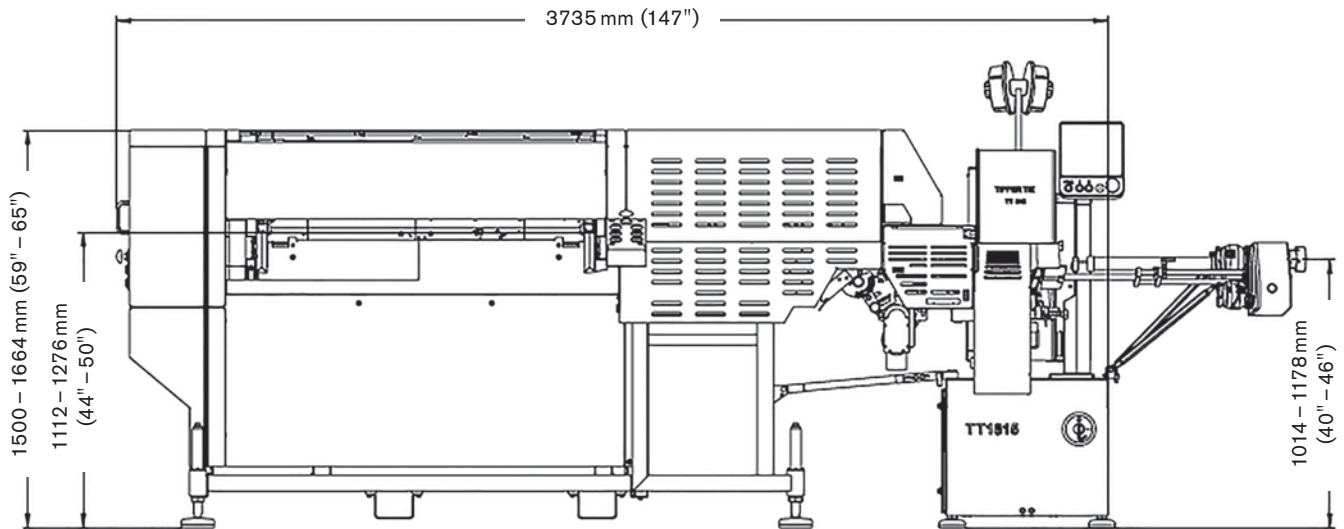
Comfortable touchscreen operation

New innovations have made the TTStick even more efficient and the operation smoother thanks to the elimination of pneumatic cylinders. TIPPER TIE's TTStick is smart, efficient, reliable!

Cleaning & Maintenance:

The TTStick is very easy to maintain and service. Smooth, stainless surfaces with a three percent gradient are design elements that allow fast, hygienic cleaning. An integrated safety control system monitors production. In the event of a machine error, the system stops the line, and the TTStick, clipper, and stuffer go into standby mode. Imminent maintenance work is communicated to the operator on the touch screen, and interactive graphics help display potential faults and error sources so the machine can be rapidly put back into service.

Technical specifications



JBT TIPPER TIE TTSTICK

CAPACITY: up to 100 loops/min

CALIBER RANGE: Ø 20 mm – Ø 120 mm

SAUSAGE/STRING LENGTH: 130 mm – 800 mm

SMOKING STICK SIZE: 800 mm – 1250 mm steplessly adjustable

SAUSAGE WEIGHT: 0,1 kg – 4 kg

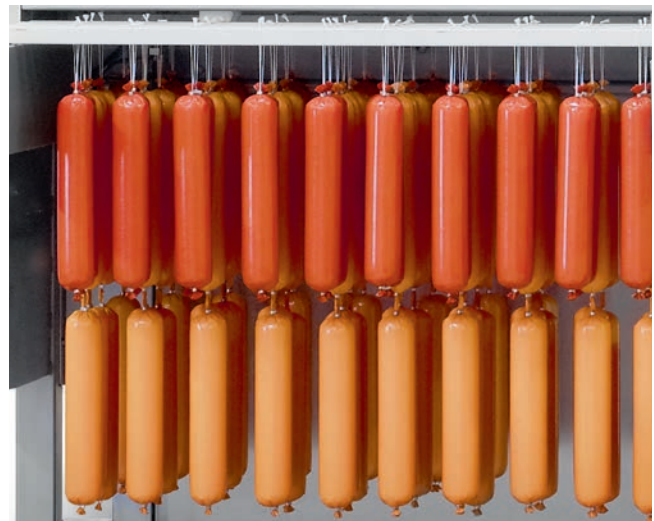
PROTECTION CLASS: IP65

FUSE PROTECTION: 10 A at 3x400 V / 50 Hz

POWER CONSUMPTION: 3,7 kW

**AIR PRESSURE/
AIR CONSUMPTION:** 6 – 7 bar / ,8 Nm³/h

WEIGHT: approx. 850 kg



JBT PROTEIN PROCESSING

SECONDARY

BRINE PREPARATION | HOMOGENIZATION | INJECTION
INJECTION & RETURN MILLING | MACERATION | MASSAGING | TENDERIZATION
X-RAY TECHNOLOGY | AUTOMATED TRAY LOADING

FURTHER

WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING
COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING
SOLUTIONS | X-RAY TECHNOLOGY | HIGH-PRESSURE PROCESSING (HPP)



North America
TIPPER TIE, Inc.
2000 Lufkin Road
Apex, NC 27539 USA
Tel. +1 919 362 8811
Fax +1 919 362 4839
tippertieCS@jbt.com

Europe
TIPPER TIE TECHNOPACK GmbH
Wilhelm-Bergner-Strasse 9a
21509 Glinde/Germany
Tel. +49 40 72 77 04 0
Fax +49 40 72 77 04 100
infoDE@jbt.com

Latin America
JBT Máq. Equip. Ind. Ltda.
Av. Eng. Camilo Dinucci 4605
14808-900 Araraquara
São Paulo/Brazil
Phone +55 16 3301 2000
latinamerica.info@jbt.com



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tippertie.com | jbt.com