

STEP TP-733VTS ZELOS



Introduction

The STEP TP-733 VTS Fully Automatic Vertical Pallet Strapping Machine with top seal over many advantages in environments that are dusty or moist, also an advantage for stabilizing the load on the pallet before strapping it to the pallet. Suitable for low pallet heights as well as higher pallets within the machine maximum limits

- Standard size W1600xH1650
- Capacity up to 63 pallets/hour with double parallel strap
- For PP or PET strap 9, 12, 15.5 or 19mm
- Tension 1.100-3.200N option 200-1.200N
- Core \varnothing 406
- Min pallet W350xH300
- Electrical 220-415V as per demand 50-60Hz 3phase

STEP TP-733VTS ZELOS is ideal for general palletized products, especially on those with low pallet height. It provides an excellent strapping condition toward packages. The easy operating SIEMENS touch panel gives simple job for operator to control and monitor the

task. With quick connection to master control system, TP-733VTS can perfectly fit every end-of-line packaging operation.

The entire machine is **electric-driven**, optimizing the maximum operation efficiency on every detail. During strap cycle, the **floating head** gives tension equally on the strap around the package. The **strap can be fed at any height** which saves lots of preparation time for next package. In addition, the ascent and decline speed of strapping head can be adjusted between 70 and 200 mm/sec to prevent damage on packages.

STEP TP-733VTS ZELOS is able to fulfill various needs from different industries, regions and production plants.

Features & Benefits

- **STEP ARES TP-733-SH Strapping Head**

TP-733VTS uses the latest German-made DC brushless motor technology to provide the highest level of accuracy and reliability.

- **Floating Head**

It can equalize the tension around the package to optimize strap holding performance.

- **Strap can be fed at any height**

The strapping head does not need to go back to home position for strap feeding. It greatly increases the efficiency on preparation time for next strap cycle.

- **All Electric Driven Design**

No air consumption is required. The performance of the machine will not be restricted by the air supply.

- **SIEMENS PLC and HMI**

Provide easy adjustment, operation instructions, troubleshooting guides, and real-time sensor status display.

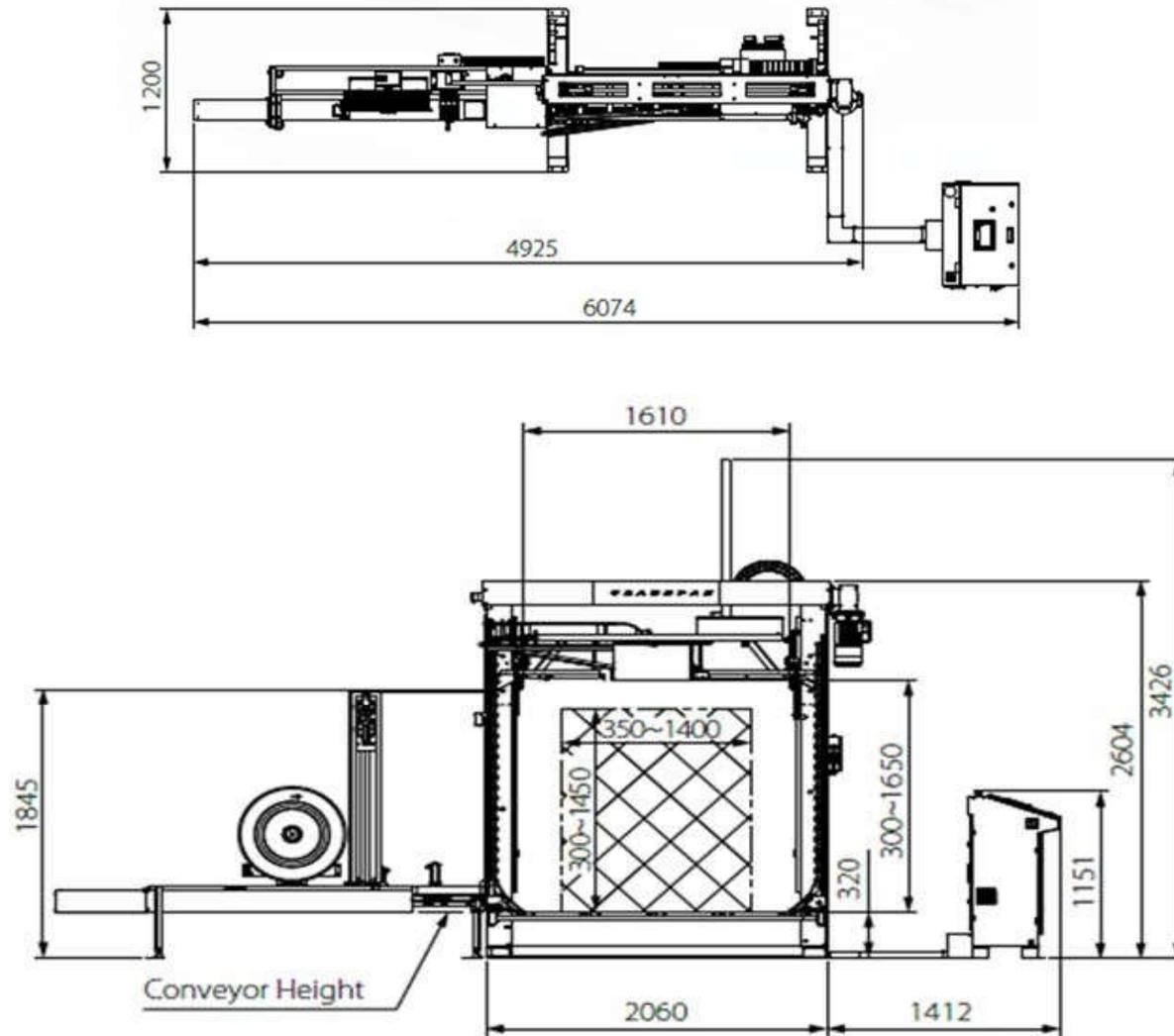
The machine is built in Taiwan by Transpak under Sal-Tech Easy Packaging quality control and project management and in some case with extra features at STEP's own factories.

Electrical & Electronic Components List

STEP use high quality parts for our products. We list some major electrical and electronic components for TP-733VTS ZELOS as follows for your reference.

No.	Parts Description	Manufacturer
1	Main Power Switch	GIOVENZANA
2	Inverter	DELTA
3	Fuse Holder	WAGO
4	Terminal	WAGO
5	Brushless DC Motors	GERMAN MADE
6	PLC	SIEMENS
7	HMI	SIEMENS
8	Contactora	SIEMENS
9	Safety Relay Module	PILZ
10	Relay	TYCO (SCHRACK)
11	Emergency Stop	EATON

Machine Dimensions



Options

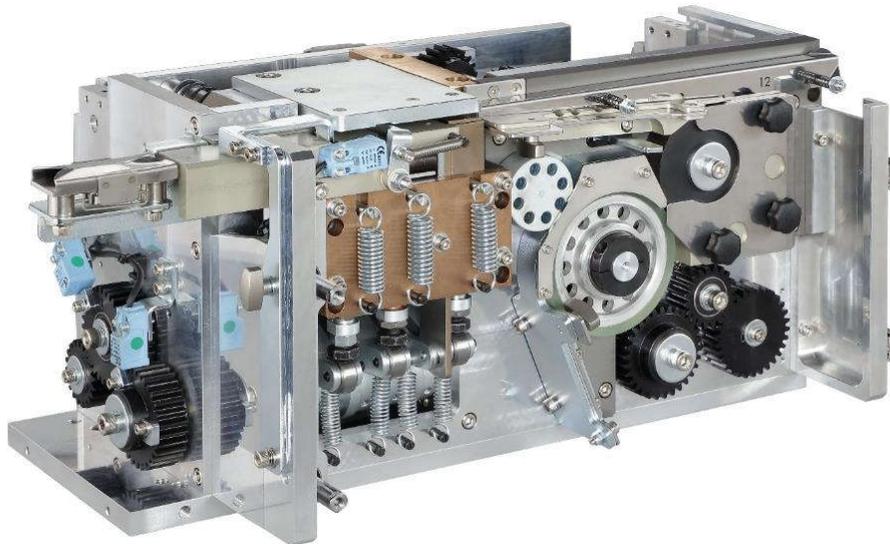
- **Appointed color**
- **Lower tension range** (200 -1200 N)
- **Light tower with low strap sensor**
- **Air conditioner for electric control cabinet**
Machine can be operated in higher temperature environment.
- **Adding underfeed channel** (patent pending)
Suitable for mixed package types and sizes. Be able to switch between lance and underfeed channel automatically.
- **Automatic self-adjusting strapping head height for next package**
- **Uplifted support**
Machine can be upraised to fit the height of upstream equipment in the production line.

Machine item numbers & Options

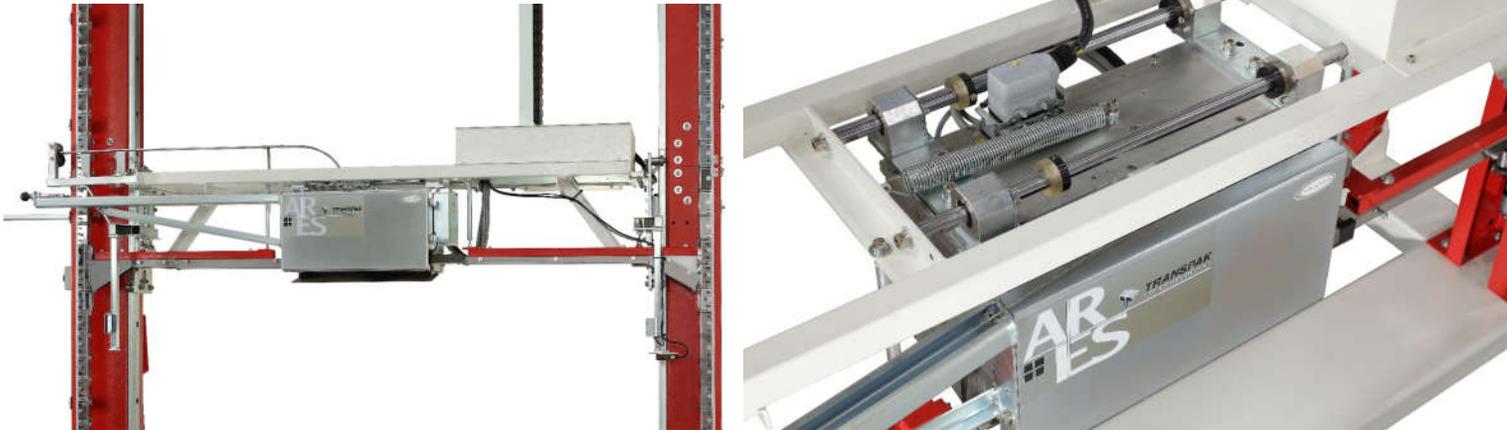
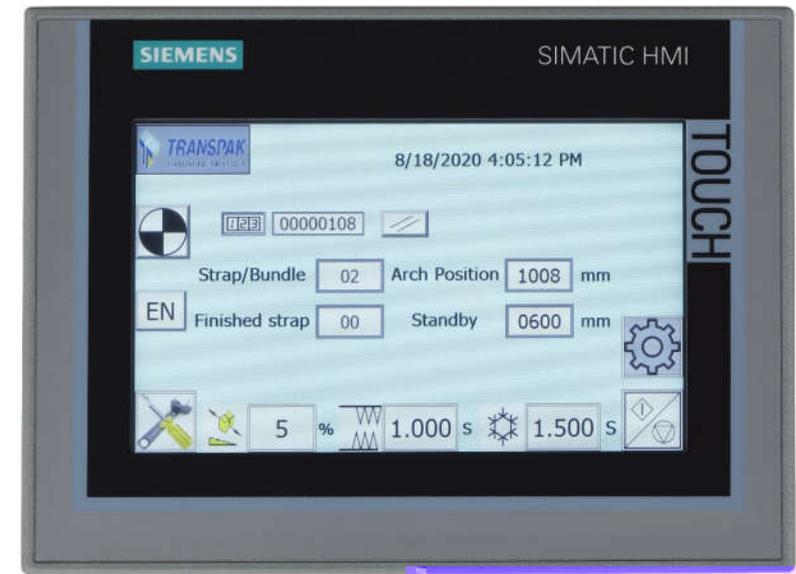
Arch size and item number the machine 41203010-WW.HH

H	W	W1600	W2000	W2400
H1650		41203010-16.16 (Standard)	41203010-20.16	41203010-24.16
H2050		41203010-16.20	41203010-20.20	41203010-24.20
H2450		41203010-16.24	41203010-20.24	41203010-24.24
H2850		41203010-16.28	41203010-20.28	41203010-24.28

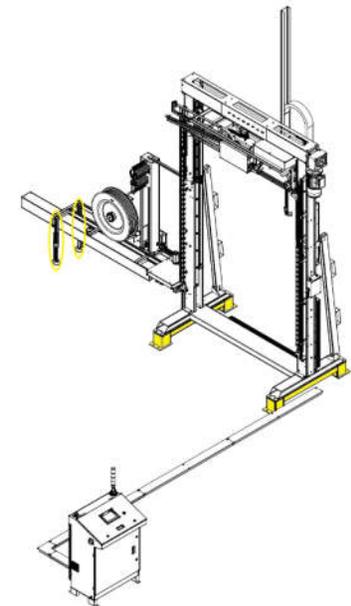
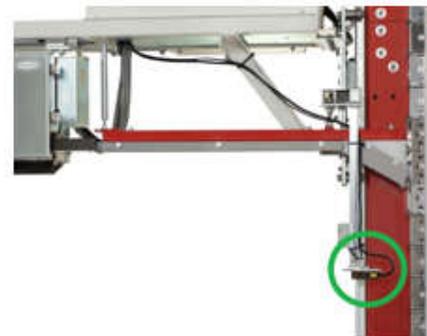
- **Apply STEP ARES TP-733-SH**
 - German-made DC brushless motors
 - Direct drive technology
 - Friction weld sealing technology
 - For 9(PET only), 12, 15.5 or 19 mm PP and PET strapping
 - Free access to strap guides
 - Tension force up to 3,200 N (320 kg)
 - Standard range: 1,100-3,200 N (110-320 kg)
 - Low tension range: 200-1,200 N (20-120 kg)



- **SIEMENS PLC and HMI**
 - Provide friendly user interface for operation
 - Real-time sensor monitoring
- **Strap can be fed at any height**
 - No need to return to home position for strap feeding, stay ready for the next cycle
- **Floating Head**
 - Equalize tension around the package
 - Optimize strap holding performance



- **Appointed color**
 - Machine can be painted in assigned colors
- **Light tower with low strap sensor**
 - It helps to know machine status easily.
Green: normal operation
Yellow: low strap amount on coil
Red: machine error
- **Air conditioner for electric control cabinet**
 - Prevent the electric components from getting overheat during operation and malfunctioned, especially in hot environment
- **Adding underfeed channel**
 - Suitable for mixed package types and sizes. Be able to switch between lance and underfeed channel automatically (patent pending)
- **Automatic self-adjusting strapping head height for next package**
 - The machine will detect the next package and decide its strapping head preparation height for next cycle.
- **Uplifted support for appointed conveyor height**
 - Provide uplifted structure for machine to fit production line



- **Adjustable Speed for Head Movement**
 - The ascent and decline speed of strapping head can be adjusted to prevent damage on package
- **Excellent Package Top Detection**

There are sensor and detection plate to make sure the strapping head stop precisely and softly at the time it touches the package

- **All Electric Driven Design**
 - No Air consumption is required
 - Performance will not be restricted by air supply condition
- **Strap End Ejector**
 - Easy to clean the end of strap and get the machine ready for next coil of strap
- **Adjustable Sealing and Cooling Time**
 - Sealing and cooling time can be adjusted according to the strapping used to optimize the sealing efficiency

