

TW/PFN SERIES

Vertical Form-Fill-Seal Machine

Powder Filling System



TWN3 / TWN5 / TWN6 / TWN-Z / TWTT / TWSD / TWX300
PFN / PFNS / PFN-L / Screw Conveyor

Form-Fill-Seal pillow type bag making machines full of experiences of longer than 45 years and layers of know-how.
TAM TW/PFN series of machines responding to various needs of packaging field.



Standard & Snack Specifications

TWN3

- Operational status is displayed during operation, and such functional status as [Temperature], [Pressure], [Closing Position] of Sealing Bar can also be checked out.
- Product Changeover is now very easy by registering, for each product, the threshold value for detecting the registration mark and splice on film.
- Continuous or Intermittent motion machine is of customer's selection.

Machine Specifications

Machine Type		Intermittent Motion Machine	Continuous Motion Machine
Package Size Range	Bag Width	65~250mm	
	Bag Lgth	50~300mm	100~300mm
Packaging Speed		Max 100bags/min	Max 140bags/min
Machine Foot-print		W1184mm D1846mm H1600mm	
Weight		880kg	900kg
Power Consumption		3Phase 200V 3.1kW	3Phase 200V 4.7kW
Air Consumption		0.21m³/min (at 60bpm)	0.17m³/min (at 120bpm)



Coffee/Powder Specification Machine

TWN5/TWN6

- Powder of flour, coffee and chemical goods, and granulated powder such as spice, soup mix can be filled.
- Auger fillers of in-house products form all-in-one system when combined with VFFS machines. Compressive control is possible from filling, bagging and through finishing process.
- Contamination in seals is minimized thanks to high filling accuracy and technology of preventing powder drippage.(Option:Deaeration auger)

Machine Specifications

Machine Type		Intermittent Motion Machine	Continuous Motion Machine
Package Size Range	Bag Width	65~250mm	
	Bag Lgth	50~300mm	100~300mm
Packaging Speed		Max 100bags/min	Max 140bags/min
Machine Foot-print		W1184mm D1846mm H2922mm	
Weight		1150kg	1170kg
Power Consumption		3Phase 200V 5.5kW	3Phase 200V 6.9kW
Air Consumption		0.21m³/min (at 60bpm)	0.17m³/min (at 120bpm)



Standard & Snack Specifications Compact Machine

TWTT

Standard & Snack Specifications Short drop type Machine

TWSD

Machine Specifications

Machine Type		TWTT	TWSD
Package Size Range	Bag Width	50~200mm	70*~180mm
	Bag Lgth	50~300mm	50~200mm
Packaging Speed		Max 100bags/min	
Machine Foot-print		W1085mm D1846mm H1420mm	
Drop distance		920mm	710mm
Weight		800kg	
Power Consumption		3Phase 200V 3.1kW	
Air Consumption		0.21m³/min (at 60bpm)	

*50~180 is optionally available.



Valve application type for Coffee powder

TWN-V

- Valve is applied automatically for releasing CO2 gas.
- Selection of Inner Valve or Outer Valve type machine is available.
- Valve-less packaging is also possible.



In-line Zipper Specification

TWN-Z

- Small-footprint is realized by combining with a roll-type zipper device.
- Contributes to saving cost packaging material.
- Snacks, serials, candies, and powder of instant drink mixes and flour are applicable for packaging.

Machine Specifications

Package Size Range	Bag Width	80~250mm (pillow bag)
	Bag Lgth	100~410mm
Packaging Speed		Varies depending on Product to be packaged, Packaging Material, Bag Configuration. [Reference] Guideline is 60 bags/min with 160mm long Zipper
Machine Foot-print		W1850mm D2470mm H1600mm
Weight		approx.1300kg
Power Consumption		3Phase 200V 5.2kW
Air Consumption		0.35m³/min (at 30bpm)





Economy Type

TWX300

- Film rolls can be quickly and easily replaced by installing the film reel outside the machine frame.
- Reducing the number of rolls helps minimizing the load on film feeding to enable stable feeding.

Machine Specifications

Package Size Range	Bag Width	50mm~220mm
	Bag Lgth	80mm~350mm
Packaging Speed		Max 100bags/min
Machine Foot-print		W1050mm D1800mm H1494mm
Weight		700kg
Power Consumption		3Phase 200V 2.1KW
Air Consumption		0.21m³/min (at 60bpm)

OPTION

Automatic Film Splicer (Optional)

- Film is automatically spliced without stopping the machine. Labor and time needed for film replacement are greatly reduced.
- Impulse Sealing is used for film splicing, avoiding splice from peeling while feeding.

Other Options

Seal Cooling	Hot Printer	Hot Roll Printer
Thermal Printer	Automatic Adjustment Coding Position	Automatic Tracking Correction
Static Eliminator	Automatic Film Splicer	N2 Gas Filling
WTB/Gusset/Square Bottom/ Standing	I (V) Notch	Punch Holes
Vibratory Devices	Longitudinal Seal: Servo Driven	Gusset/Square Bottom Bags: Servo Driven

*Options handling other commodities are also in our product variety.





Automatic Volumetric
Filling Machine

PFN/PFNS



- All powder contacting parts can be disassembled and washed easily.
- Paint-free product contacting surfaces provide safe filling of pharmaceutical and food items.
- Hopper Lids are detachable without using any tool.

Machine Specifications

Machine Type	PFN	PFNS
Filling weight range	5g~20kg	5g~5kg
Weight	270kg	260kg
Filling Speed	1~120/min	1~120/min
Power Consumption	3Phase 200V 6.6kW	
Hopper capacity	70 ℓ mass10kg	



Simple Procedure of Removal and Mantling of Hopper Lids.



1 Loosen with fingers the 8 knobs around the hopper lid.



2 Flip up the hooks at 4 places securing 2 lids.



3 Slide one lid and remove.



4 Slide remaining lid and remove.

Filler with automatic product weighing system
equipped with deaeration device.

PFN-L

- Powder Surface Compression Filling helps avoiding powder dust and improves working environment.
- Filling accuracy is stabilized by conducting "weigh-fill" by built-in Load Cell.
- The filter for deaeration can be disassembled for easy washing.

Machine Specifications

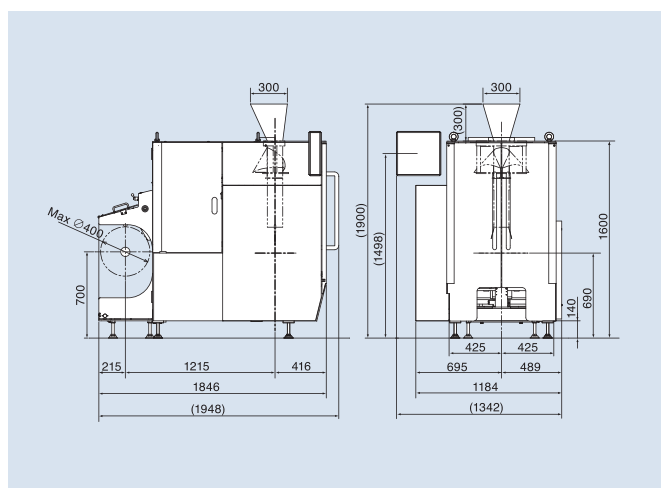
Filling weight range	3kg~10kg (can be consulted)
Packaging Speed	approx. 2bags/min
Machine Foot-print	W870mm D1000mm H2500mm
Weight	720kg
Power Consumption	3Phase 200V 5.5kW
Air Consumption	0.02m³/min (for maintenance wash only)



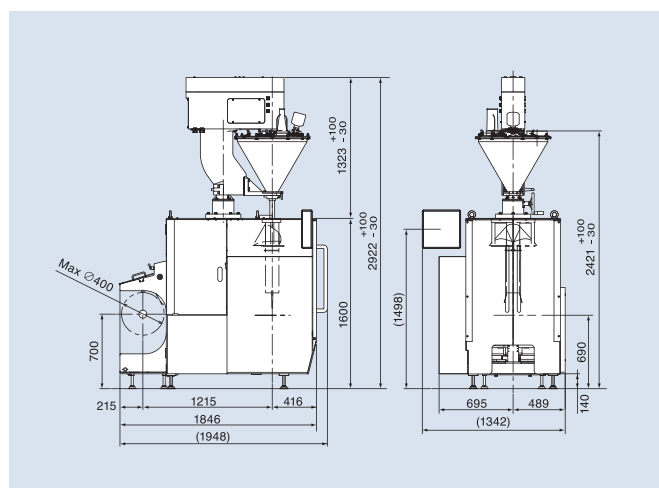
Screw Conveyor for Powder
**Product of
Hukuchi Sangyo**



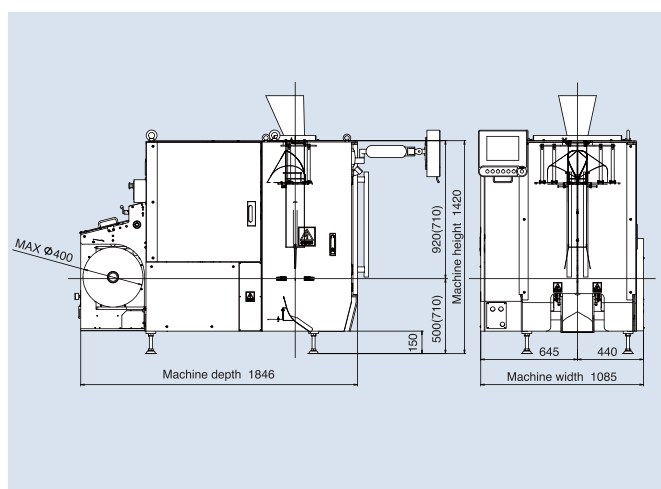
■ TWN3 Outline (unit : mm)



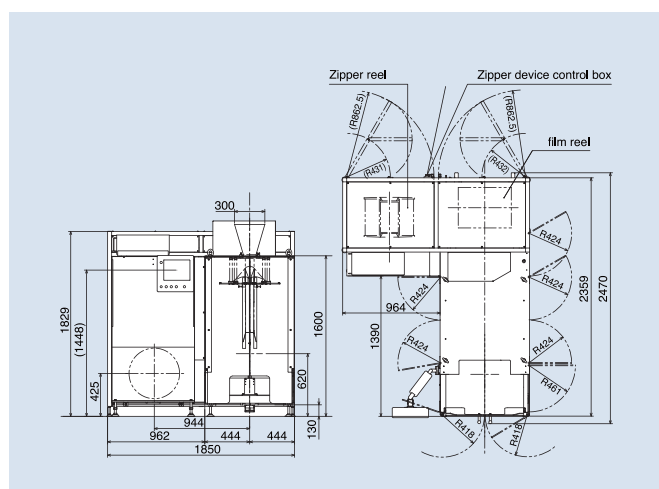
■ TWN5/TWN6 Outline (unit : mm)



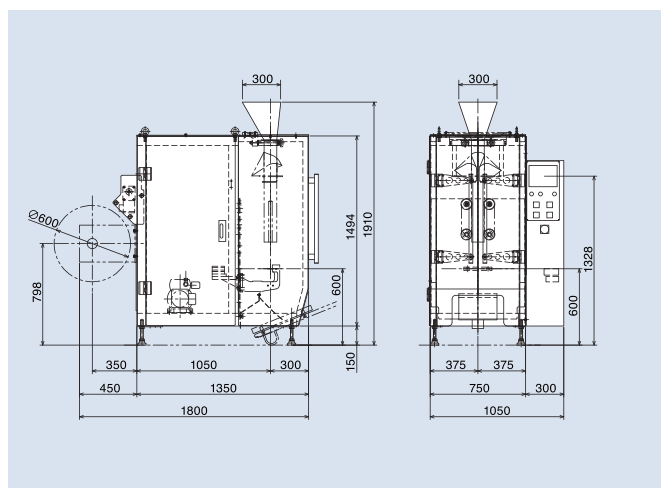
■ TWTT/TWSD Outline (unit : mm) ()=TWSD



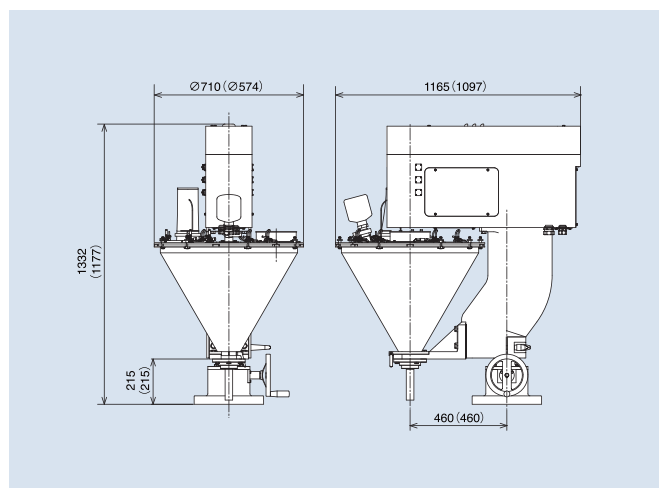
■ TWN-Z Outline (unit : mm)



■ TWX300 Outline (unit : mm)



■ PFN/PFNS Outline (unit : mm)



*External view and/or specifications of the machine are subject change without notice.

Tokyo Automatic Machinery Works, Ltd.

TOJIKI BLDG., 3-10-7 Iwamotocho, Chiyoda-Ku, Tokyo 101-0032 Japan
 TEL: 81-3-3866-4824 FAX: 81-3-3866-7150
 URL: <http://www.tam-tokyo.co.jp/>
 E-mail: tam-overseas@tam-tokyo.co.jp

Agent: