iTPS™

ISHIDA TOTAL PACKAGING SYSTEM
for Snack Foods

ITPS Delivers Innovative Solutions For Superior High-Speed Snack Packaging

The Ishida Total Packaging System (ITPS) delivers seamless high-speed integration of weighing, bagmaking, error rejecting, seal checking and checkweighing.

Supported by Ishida's exclusive ITPS Coordinator controls interface, the system optimizes packaging line performance through precise quality control, reduced downtime and product giveaway, simplified operation and maintenance, and reliable data reporting and analysis.

Quality Control

Near zero product giveaway
Tight and uniform bag seals
Integrated bag weight and
   air leak detection
(Metal detection available as an option)

High Production Efficiency

Speeds to 200 bags per minute
No auxiliary equipment required
Integrated mechanical and
   electronic interfaces

Networking

Direct connection to LAN
   via Ethernet
Convenient data reporting

Inter-operable System

Total system control from
 one touch screen panel
Quick and easy product changeovers
Minimal operator training time and cost

Effective Line Management

Optimal use of product
 and packaging film
Detailed analysis of
 production statistics

ISHIDA TOTAL PACKAGING SYSTEM

ITPS - A true integration of Ishida's state-of-the-art that delivers high-quality and high-performance snack

Inspection systems verify product quality before final distribution to your customers. The TSC Seal Checker detects and rejects unsealed bags, bags with pinholes, or bags that are too thick or thin. The DACS Checkweigher monitors each bag's weight and rejects those that are outside the acceptable weight range. Integrated metal detection is available as an option.

Quality Control

TSC
Seal Checker

- Pinhole inspection accuracy of 3mm at 200 bpm
- Bag size range up to 120mm thick and 330mm wide
- Patented bag stabilizer unit smooths bag flow on the conveyor for maximum inspection speeds.

DACS
Checkweigher

- Innovative FBi force-balance sensor allows precise high-speed weight inspection at a minimum graduation of 0.01g.
- Dependable air-blast reject of unacceptable bags from the line
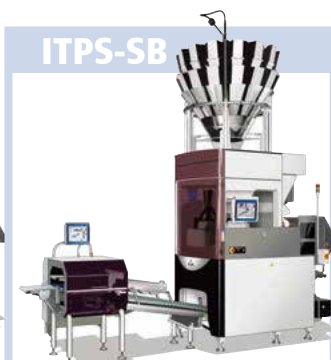- Digital filtering for unbeatable weighing accuracy
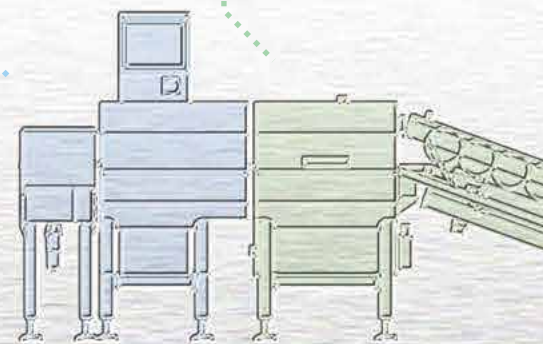
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Model Variations

Ishida offers a wide selection of ITPS configurations to suit specific production line requirements.

ITPS-SC	ITPS-SB	ITPS-SA	QC Station
CCW + ATLAS + TSC + DACS	CCW + ATLAS-+ TSC	CCW + ATLAS	TSC + DACS

engineering, manufacturing, and controls technology food packaging.

High Production Efficiency

The CCW-RV Multihead Weigher and Atlas snack food vertical bagmaker are specifically designed for accurate, high-speed production. Direct mounting of the weigher to the bagmaker eliminates support framework, reduces installation costs, and saves valuable floor space. Total integration of the mechanical and electronic interfaces ensures maximum operating flexibility and performance.
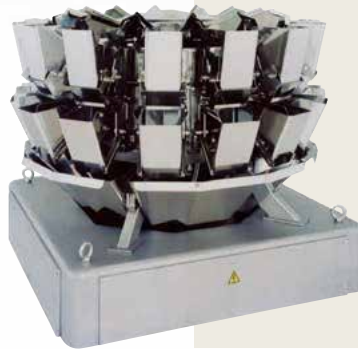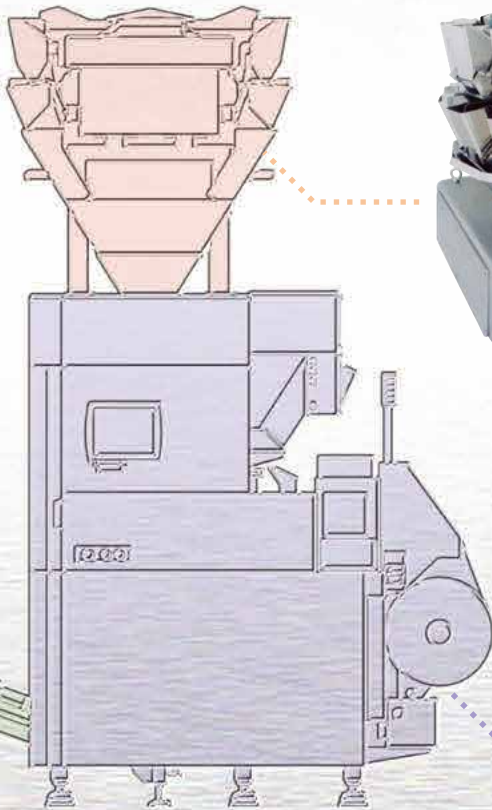
CCW
Multihead Weigher

- Exclusive weight calculation technology maintains unbeatable accuracy.
- Advanced automatic controls sustain good product feed for highest efficiencies.
- Pulse Width Modulation automatically tunes feeder vibration for optimal product flow.
- Automatic hopper opening/closing timing maximizes product transfer speeds for highest possible filling speeds.

ATLAS
Vertical Bagmaker

- Tight bag seals using rotary or D-motion jaw design with programmable seal time, pressure and temperature
- Accurate film registration, and product stripping from the seal areas, produce quality bags.
- Reliable production reduces film and product waste.

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Networking

ITPS integrates the CCW Multihead Weigher, Atlas Vertical Bagmaker, TSC Seal Checker, and DACS Checkweigher into an Ethernet network, and exchanges the data using a Windows-based PC via OPC or DDE server technology.

Factory LANs can be easily connected through the Ethernet network. Using the exchange system, production line presets, machine settings, and other production line management data and analysis can be easily shared.

("Windows" and "DDE" are registered trademarks of Microsoft Corporation in the United States and/or other countries.)
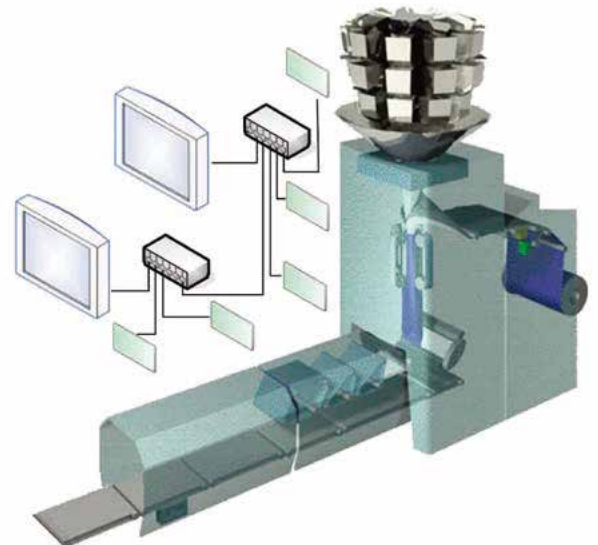
ITPS Coordinator provides a unique and powerful interface for controlling operation of the complete ITPS system. From a single integrated 12.1" color LCD display touch screen, an operator can control all ITPS equipment for maximum convenience and production flexibility.

iTPS COORDINATOR

| CCW | ATLAS | TSC | DACS | Metal Detector | Code Dater |

Metal detector and code dater are available upon request.

ITPS Benefits!

- Increased production efficiency
- Reduced product giveaway
- Minimal film waste
- Lower training costs
- Accurate real-time data reporting
- Simple error diagnostics

Set-up and adjustment of the entire ITPS system are quick and easy to perform.

- Fast preset selection and product changeovers
- Individual machine adjustment from a single screen
- Lower operator training costs and time
- Help functions guide operator inputs to reduce errors.
- Additional control screens can be added if requested.

Preset selection screen

An image of each product and the data of each product's operating parameters are preset beforehand, making product selection and line changeovers quick and simple.

Machine adjustment screen

Even during production, ITPS data can be changed on the control screen to improve production by precise adjustment.

Maximize productivity and throughput by monitoring and adjusting line operating conditions displayed in real time.

- **Improve production efficiency**
  Causes of operating inefficiencies are identified in real time, so quick adjustments can be made.

- **Optimize raw material usage**
  High operating efficiency ensures reduced product and film waste, improving profitability.

Operation time analysis

For a predetermined length of production time, the status of various machine conditions (i.e. feed stop, good bag production, machine stop, etc.) are displayed in minutes and seconds.
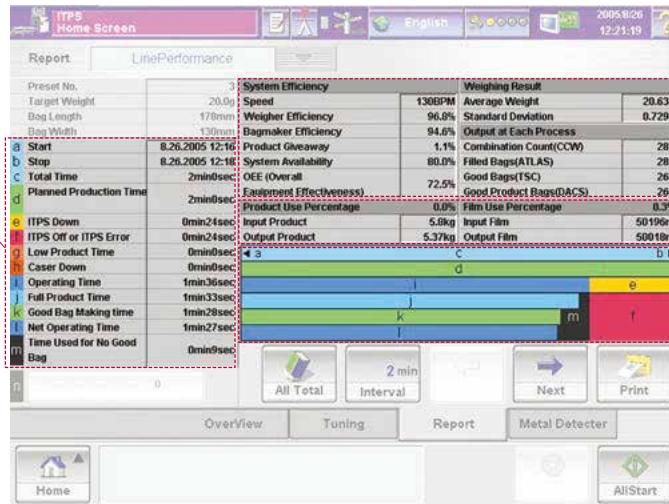
Production analysis screen

Machine running status

System efficiency data such as speed, product giveaway, and bagmaker/weigher efficiency, are calculated as percentages. Weighing results such as average weight and standard deviation are shown in grams. The output of each machine is displayed.

Material consumption

The input and output of material use (product and film) are displayed in kilograms and meters, and calculated in percentages.
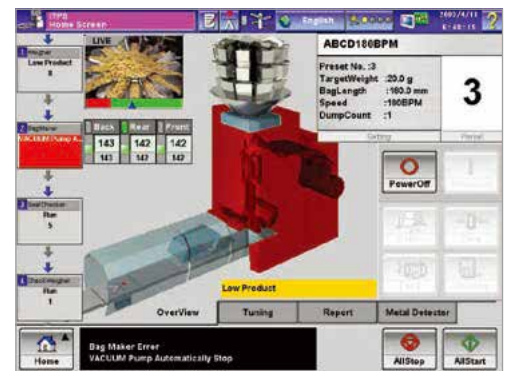
System efficiency chart

Operation time analysis is displayed in an easy-to-read chart that allows the operator to make adjustments to improve line performance.

System monitoring

Machine error messages in red text immediately identify problem areas, so appropriate adjustments can be made and production downtime is minimized.
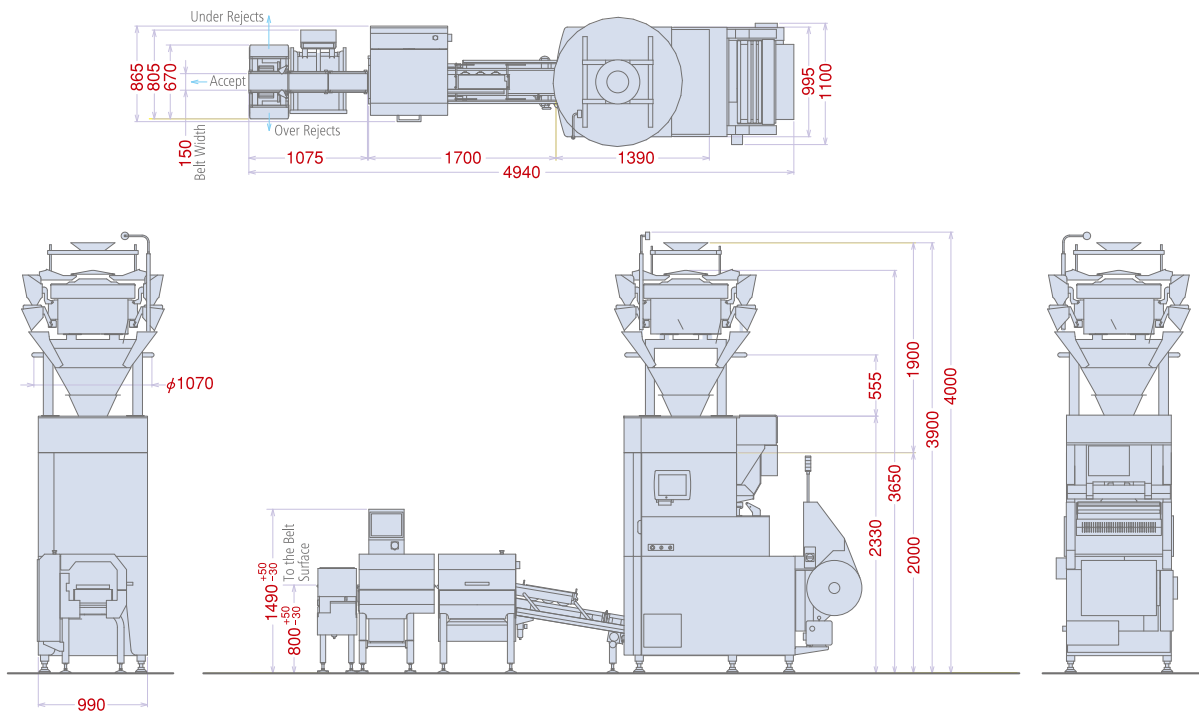

ITPS main production screen

Error display screen

Specifications (ITPS-SC)

Model name	ITPS
System machine component	CCW ATLAS TSC DACS
Touch screen display	12.1" color LCD touch screen panel
Performance	Max. 200 bpm
Number of presets	200
Bag size*	100-300mm (L) x 75-150mm (W)
Dimensions	3900mm (H, top of inlet chute) x 4940mm (L) x 1100mm (W)
System weight	Approx. 2000kg
Construction	IP-50
Network interface	Host interface capability via Ethernet

*Varies depending on system configuration or operating condition. Please contact your local distributor for the detailed specificatin.

Dimensions unit: mm