October 2015







Much more than just weighing; The SSV series provides valuable process control information.



Additional benefit **Enhanced productivity** by SMF and other features

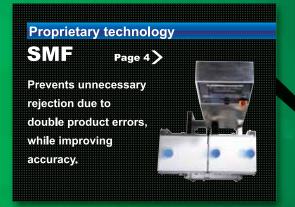
Additional benefit Improved operation through navigation svstem

Improved Productivity

Operation Support

Weighing and Rejecting

Core function Increased accuracy and stability by significantly enhanced weigh cell features





Anritsu Checkweighers have continuously evolved.



K501 series

First Anritsu checkweigher

Maximum accuracy: ±0.5 g

[Main model: K501]

150 products/min





8 (Eight) series Was very successful thanks to its superior cost/performance ratio

[Main model: K528]

- 150 products/min
- Scale value: 0.01 g
- Maximum accuracy: ±0.05 g

Hi series

Used high-speed and high accuracy electromagnetic force balance for the first time.

[Main model: K621B]

- Maximum speed:
- Scale value: 0.005 g
- Maximum accuracy: ±0.02 g

SV series

With over 800 different models, SV series becomes a long-selling product for over 10 years.

[Main model: KW6003BP03]

- Maximum speed:
- Scale value: 0.005 g
- Maximum accuracy: ±0.015 g

SSV series

[Main model: KWS6003BP03]









Easy to follow

Operation guidance Page 5>

Enhanced intuitive navigation functions including Smart Guide make daily usage and maintenance simple.



Enhanced accuracy and stability

New force balance

Minimum scale value is 0.001g. Maximum accuracy is ±0.01g. Resolution quadrupled*. Temperature resistance improved.



Easy to use

Color LCD touch screen interface

8.5" color LCD touch screen interface significantly improves daily use. System has 6 selectable display modes.







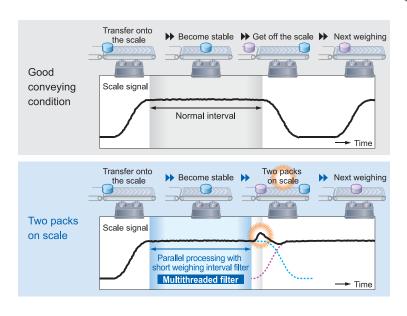


Useful features

USB interface Ethernet interface Equipped as standard



Accurate weighing



Conventional checkweighers use the weigh cell signal, after signal processing, to determine the weight of each product as it passes over the weigh table. If two packs are on the weigh table at the same time, a "double product error" will occur and the system is forced to reject both products since each individual product weight cannot be determined. Anritsu SSV series checkweigher advancements use innovative signal processing, multithreaded filtering, in conjunction with improved scale resolution to minimize "double product errors". This simultaneously minimizes unnecessary rejects and maximizes line productivity.

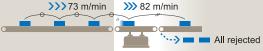


Example Rejection down, yield up with SMF

High speed production line at 200 products/min

■ Conventional checkweigher

Product spacing is normally established by increasing the checkweigher conveyor speed, compared to the normal line speed, to prevent two products being on the weigh scale at the same time.



- Double products are all rejected. Double products error rate is 0.15%
- Due to increased conveyor speed, scale accuracy reduced to 0.75 g

SSV checkweigher equipped with SMF

Product spacing and checkweigher conveyor speed is maintained. By running slower, the SSV system provides higher accuracy even if two products are on the weigh scale at the same time.



- Double products rejection is down. Double products error rate is 0.03%
- Scale accuracy is maintained to 0.35 g

Improvement rate

• Double products error rate: 0.12% • Scale accuracy: 0.4 g

Effect on productivity

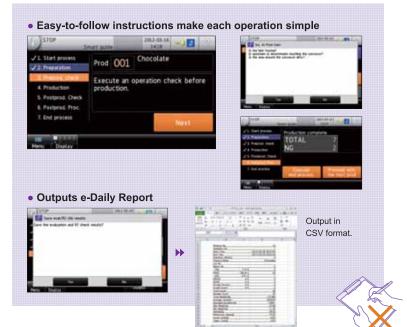
In case of the total production per year of 28,8 million products,

Calculated on 8 hours uptime per day, 25 days uptime per month, and uptime ratio of 100%. 200 p/min × 60 min/hour × 8 hour/day × 25 day/month × 12 month

- 28,8 million products × 0.12% = **34,560 products** / year
- With change of feeding amount due to increased accuracy: 28,8 million products × 0.4 g = 11,520 kg / year

Note: This data was obtained with difficult products, unstable and having long settling times. Improvements will vary depending on packaging, product and SSV model.

Point Smart Guide makes operation easy and avoids operator errors.



Navigation and Supervision

For checkweighers to function properly, operation checking must be performed correctly at each stage of the daily operation: at start-up, during production, and at the end of production. These procedures, although necessary, are not always strictly followed due to the time and effort involved.

Smart Guide navigates operation check and maintenance procedures in an easy-to-understand format. Moreover, when a procedure was performed incorrectly, Smart Guide will not allow to proceed further, ensuring correct operation management.

E-Daily Report

All checkweigher weight data and operation check (audit) records are saved local on the SSV checkweigher. At the end of production, the data and operation check log can be sent via **E-Reports**. The elimination of manual data collection minimizes possible errors and makes data and log management simple and efficient.

Point

Product Registration Navigation simplifies parameter setting procedures with step-by-step illustrated instructions.





On-screen illustrations help you understand each key procedure and are listed in a "step-by-step" methodology. If performed improperly, the navigation stops for



Operation Guidance

Operation

Easy to follow

Operator-oriented, easily navigated menu structure

SSV series checkweigher

responds to issues arising from different positions.



We've increased the conveyor speed to prevent two packs getting on the scale simultaneously. Is this Okay?

I use a checkweigher everyday. Ease of use is critical.



Maintain appropriate belt speed with SMF.

Increasing the conveyor speed is not a recommended approach since when the flow increases, the weighing period decreases, which decreases weighing accuracy. With SMF, which minimizes weighing errors caused by two packs getting on a scale simultaneously, you can realize accurate weighing at proper speeds.

Operators



All SSV series checkweighers come with a color LCD touch screen.

The SSV's standard 8.5 inch color LCD touch screen greatly enhances usability and system navigation. 6 standard view screens are available to quickly see product weight or trending information

It's a bother to fill in daily reports everyday!



You can create e-Report with Smart Guide.

The SSV checkweighers save the entire operation history onto themselves. At the end of the production, those can be output in a CSV file.



SSV's navigation makes operation easy.

I don't want to read thick

manuals, nor do I want to keep them in the facility.

With SSV's intuitive navigation, product creation and changes are quick and easy. Manuals are not required and simplicity minimizes user

The navigation system also greatly aids for data collection and HACCP compliance.

Learning new equipment can take a lot of time.



Smart Guide minimizes training effort.

Smart Guide navigation guides the user through basic system operation. Even inexperienced operators can quickly learn the system by following the on-screen instructions.







IP66 rated waterproof models are suitable.

SSV series has a wide lineup with different modules. Waterproof models are suitable for wet environment.

The open frame structure allows for easy cleaning.



Can we use a checkweigher in wet environment?





I'm concerned with increasing material costs.

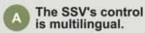
I want to use a checkweigher in our overseas factory.



SMF is effective for minimizing material waste.

SMF reduces double product errors with the net benefit of lower product rejects and material costs.

Corporate manager



11 different languages are selectable on-screen for interface including English, Spanish, French, German, etc.



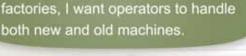
I want a machine for high-mix low-volume production.



The SSV series checkweigher supports 200 different products.

Operating parameters for up to 200 different products can be stored in the memory of SSV series checkweighers. The product registration is easy to perform thanks to Product Registration Navigation.

How can we improve our quality control program?



Even if my company consolidates its



Operators should have no trouble with SSV.

Although the SSV series features a lot of new functions, its basic settings are the same as those of previous models. It's easy to handle for operators who are familiar with the Anritsu's previous models.

Quality control manager / Site supervisor

We recommend Smart Guide and QUICCA.

Smart Guide prevents operator errors by stopping procedures until the instructions are followed correctly. USB port and Ethernet are equipped as standard. With QUICCA installed, you can optimize your quality control by using ID barcode scanning and video camera monitoring.

Refer to QUICCA brochure for detailed features.



What if unexpected events occur?



Depend on Anritsu's global maintenance network.

We offer comprehensive and responsive service network in over 50 countries, ensuring that service, maintenance and repairs are carried out quickly and efficiently.

Q&A

What is the difference in specifications between SV and SSV?

55W KWS6205BP05

Display: 8.5-inch

color LCD touch screen

Weighing range: 1.2 to 600 g Maximum accuracy: ±0.015 g Scale interval: 0.01 g

SV KW6205BP05

Display: FDM panel display Weighing range: 2 to 600 g Maximum accuracy: ±0.02 g Scale interval: 0.02 g

Above is the specification comparison of comparable models. Aside from display, minimum value of weighing range, maximum accuracy, and scale interval are improved by the new scale features.

Lineup



SSV-h series

Equipped with a high speed/high accuracy force balance load cell. Meets stringent accuracy and reliability standards in industrial and pharmaceutical products.

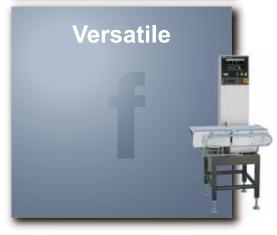
Control panel exterior	✓ Stainless steel	✓ Painted
Conveyor	☐ Waterproof	✓ Non waterproof
Balance	Force balance	☐ Strain gauge
Frame	✓ Stainless steel	✓ Painted



SSV-i series

Features waterproof and dustproof cabinet and components. Its hygienic design is perfect for unpackaged and fresh foods which require stringent sanitary control.

Control panel exterior	✓ Stainless steel	☐ Painted
Conveyor	✓ Waterproof	☐ Non waterproof
Balance	✓ Force balance	✓ Strain gauge
Frame	✓ Stainless steel	☐ Painted



SSV-f Series

Equipped with a highly versatile strain gauge load cell. Well suited for a variety of applications including heavy products.

Control panel exterior	✓ Stainless steel	✓ Painted
Conveyor	☐ Waterproof	✓ Non waterproof
Balance	☐ Force balance	✓ Strain gauge
Frame	✓ Stainless steel	✓ Painted

Refer to separate catalogs for specifications.

Unit construction Select the best combination

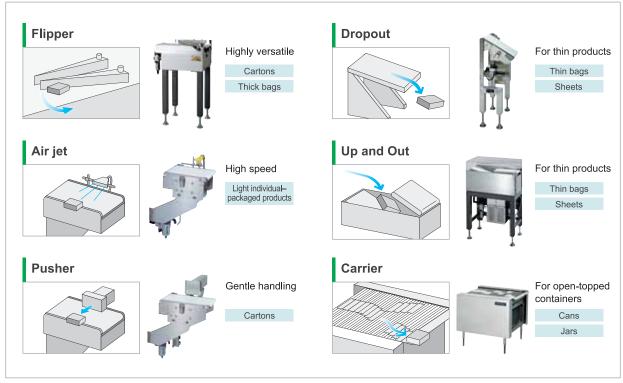


■ Option

Contact our sales representatives for details.



■ Rejector





with Metal Detector

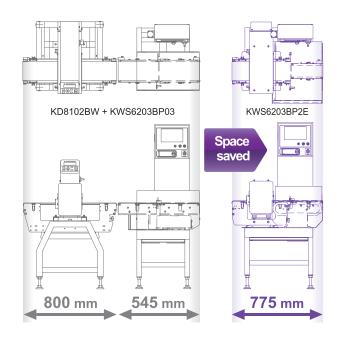


Reduced space requirement

Minimum system length of 775 mm

Compact and Reliable Inspection

Possessing an extremely small foot print, line space requirements are minimized and line integration is simplified.



Simplified Support

A single source technology, support and service provider ensures equipment consistency and reliability for the life of the system.

Simplified Operation

User-friendly single touch screen

Both metal detector and checkweigher are controlled by the standard touch screen control panel.



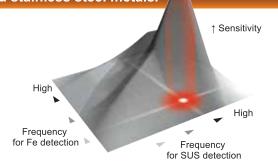




Anritsu's exclusive "dual-wave" technology

Proper frequency is chosen for ferrous, non-ferrous and stainless steel metals.

Since metals respond differently to different magnetic field frequencies, it is difficult for conventional single frequency systems to detect both ferrous and non-ferrous metals. Anritsu has patented a dual-frequency inspection system, which automatically determines the best frequencies to maximize sensitivity for both ferrous and non-ferrous metals simultaneously.



Two Different Detection Heads

High sensitivity and functionality duw-h and standard duw.

Standard duw

Simultaneous dual frequency metal detection

- optimized for both stainless steel and ferrous metals at the same time.

High Sensitivity duw-h

Enhancement to standard duw includes improved signal processing and head design for optimal sensitivity and system stability.

■Features of duw-h series

High sensitivity and high stability

The search head's design features a high resistance to mechanical vibration and electrical noise, creating an optimized magnetic field. With detection software tuned for the improved head, the duw-h series supports three times better signal to noise ratio and an increase in contaminant detection by two ranks (in-house comparison).

Enhanced automatic settings

HIS (High Sensitivity) setting

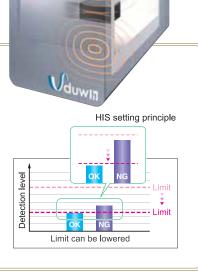
Automatically analyzes product and contaminant properties during the auto-learn process. Detection limits are set precisely and reliably for optimal contaminant detection.

Auto- limit function

Automatically set the best evaluation limit.

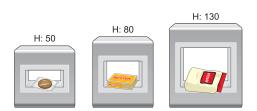
Auto-tracking function

Prevents false rejects by compensating for product/temperature changes.



■ A wide size range for various applications

◆Pass height of detection head (typical examples)



◆Belt width (typical examples)



W: 250



*The illustrations are examples of available applications only.



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- Some products shown in this catalog may not be available in your country or region. Contact our sales representatives for details.
- To ensure proper operation, read the Operation Manual before using the machine.
- In addition to daily inspection, an annual maintenance check should be carried out.

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