

Ishida Insights

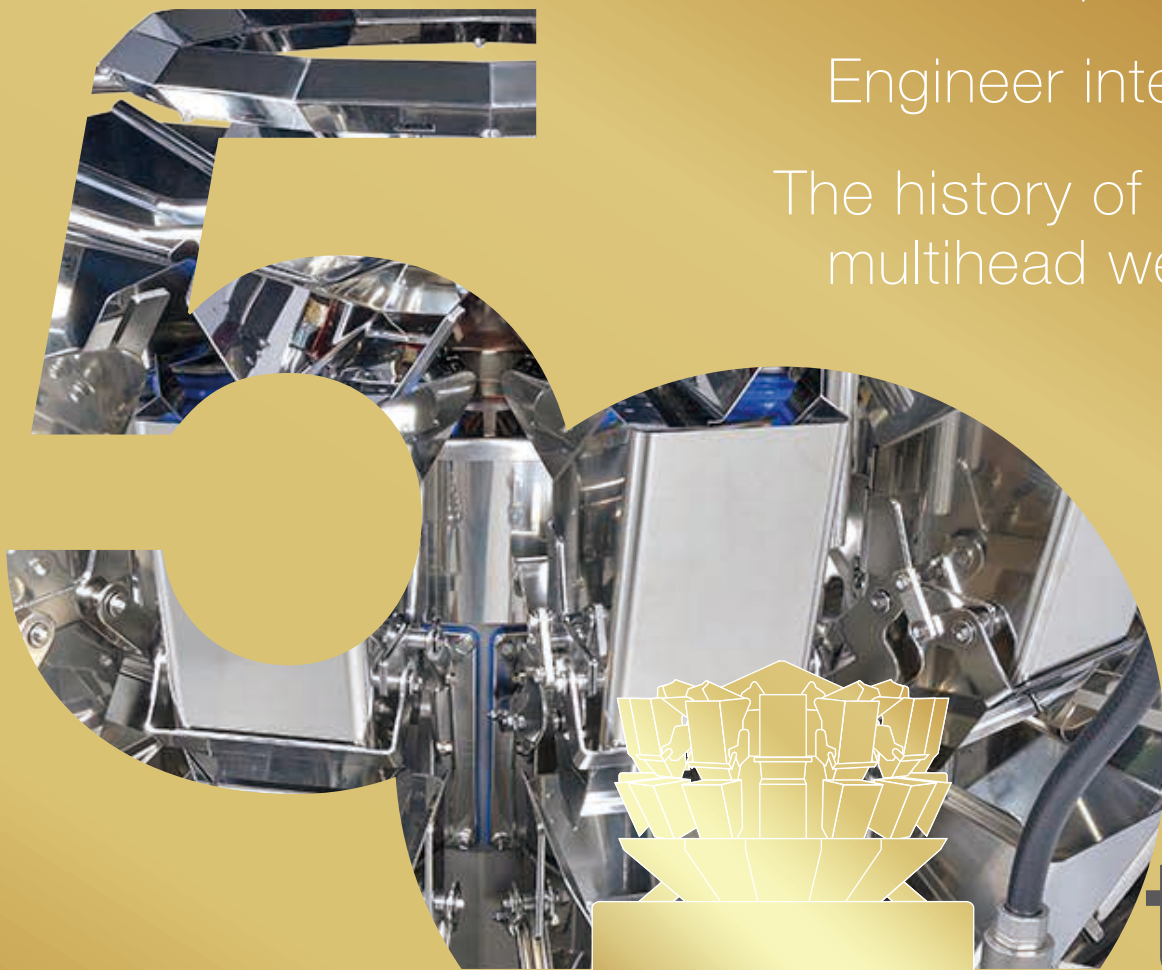
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Customer's voice

50 varieties of products

Engineer interview

The history of Ishida
multihead weigher



Anniversary

Multihead Weigher CCW





The highest reliability in Ishida CCW



Excellent, Trusted, Partnership, Great Relationship, Growth possibilities, Outstanding Service are a few words that would describe Ishida, our relationship and the image Ishida has at Prima. Its been many years I do not entertain other companies as Ishida are the best By far!



For the strong commitment, quality and scale accuracy that delivers us in a stable way for years.



Ishida combination weigher always gives us the best solution, and we always trust the accuracy of Ishida combination weigher.



This is a step in the right direction where taste is concerned. In addition it has been very easy for our staff to learn to operate the new weigher and it has definitely reduced the manpower needed on this line.

CCW 50th Anniversary



We bought our first multihead in the late 1980s... Subsequently we have had no need to change suppliers, since the equipment is very reliable and operating procedures are consistent from one generation of machines to the next. Ishida also scores highly in terms of long-term availability of spare parts and of service.



Ishida's professional approach and project management guaranteed us a smooth installation, on time and to performance specification"

"Ishida proved that it has huge experience in handling different products, including ours. This helped provide us with the best solution.



Our customer stipulated a deviation of between 1.0 and 1.5% from the stated net weight. The new weigher easily kept us within that margin.



We are very grateful for the support Ishida has given us at different stages: defining the final specification based on our brief, organising production and training our people.



CCW capabilities

50 varieties of products



1
Mozzarella cheese



5
Nugget



3
Chicken
Because of the stickiness of the product, the screw feeder conveys product forcibly without any damages.



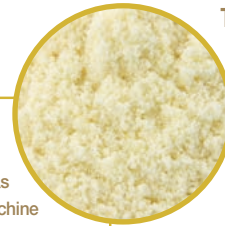
4
Sausage



6
Tobacco



2
Scallops



9
Grated cheese
For dairy product such as cheese, Improve the machine sanitation with continuous welding for dairy product such as cheese.



7
Green pepper



8
Fried pork crackling



10
Detergent gel ball
Detergent gel ball easily bounds by the feeder vibration on the trough, and goes to wrong direction, so the trough is sloped to make convey the product to correct direction.



12
Squid



11
Gummi jelly



15
Cut vegetables
Rotary sweep device on the dispersion table physically disperses light weight product.



16
Wet pet food



13
Sunflower seeds



14
Snack / Chips



17
Dumpling



18
Peanut
Various types of high speed discharge chute are available depending on the product.



19
Tablet



20
Onion



21
Vegetable and chicken mix



22
Potato



23
Cooked beans



24
Tea leaves



25
Shiitake mushrooms



26

Rubber band



27

Marshmallow



28

Peas



31

Chocolate



29

Meatball



Cookie

Gently sloped design of
hoppers enables fragile product
to be unbreakable.

30



Frozen pineapple

Applying Water repellent
coating to prevent product
sticking on the radial
feeder trough.

33



32

Herbal medicine



35

Potato stick



34

Dried fruits



Nail/Screw/Nut

An extra metal plate
is required to the hopper
when feeding the metallic
product to prevent
machine bending.

38



37

Spinach



39

Spring roll



36

Kimchi



Coffee stick

Special narrow
discharge chute
enables to align the stick
shaped product.

40



41

Mussels



42

Pot noodle



43

Raisin



44

Charcoal

Baby carrot

Extend the length of weigh
hopper gate to assemble
the combined product
without discharge chute for
high speed productivity.

45



46

Candy



47

Fried rice



48

Bean sprouts



49

Pizza topping



50

Bath bomb

Engineer interview

The recipe of gaining trust for CCW

Since you have been involved in the development of Ishida's weighing machines, is there any will/idea that you have inherited from your predecessors?

In the development department, we have inherited the spirit of "What you need to see is always in the customer's factory". And we strongly believe that going to the customer's factory and observing the production line to find and solve problems are the most significant step forward in our development. This will also lead to customer satisfaction and product innovation.

Do you visit the customer's factory from the start of the business negotiations?

As stated in Ishida's Code of Conduct, "Go to the site, see the actual product, and know the reality," our engineers take various opportunities to visit customers for business negotiations, delivery, and machine adjustments.

We strongly believe that observing the customer's factory and directly communicating with them are not only to solve problems, but also enhancing a firm relationship.

However, it is difficult to solve problems by simply visiting their factories. What is important is to learn about machines and customer's production lines as a proficient technical engineer. Therefore, our team members are always given the opportunities for the improvement of their skills and experiences. And then we continuously contribute to our customers not only by responding to their direct requests, but to also respond to their potential issues and needs.

What factors do you take care to consider when developing multihead weighers?

As multihead weighing is a measuring instrument, "accuracy" is the most important factor and frequently required for productivity. Therefore, we are developing our machines with a strong faith to prevail over the competition in accuracy.

In addition, we are developing machines with hygienic features because foreign matter absolutely must not be allowed in the production line.

When we developed the first multihead weighers, it was mainly adopted by customers in the snacks industry, but as we have expanded into various markets, we have been hearing more and more requests for a waterproof model.

In the production environment for wet products, machines are washed with high-pressure and chloride water, so we have also been working on how to minimise the risk of aluminum rusting and the risk of contaminants entering the food chain.

What makes Ishida multihead weighers unique when compared with other weighing companies?

Ishida was the first company in the world to develop a multihead weighing machine.

As a pioneer of multihead weighers, we are confident that Ishida's weighers will never lose weighing accuracy when compared with other weighing machines.

While competitors are also developing machines with similar

technology, we have launched the next generation model in October, CCW-AS series, which achieves an internal calculation of $\pm 0.01g$ weighing accuracy by improving the machine platform and circuit board.

And, of course, we have also further improved hygiene and minimised water ingress.

What is the future outlook for weighing machines?

In the next one or two years, we plan to expand the model lineup not only of circular weighing machines but also linear machines to contribute to various customers to apply the accuracy and hygiene technologies established through the development of the CCW-AS. We will continue to check our customers' production lines, listen directly to their requests, and solve issues which emerged from those processes with the advanced technology.

To do that, our engineers will be responsible for Ishida's technology in the future, to actively communicate with our customers to understand their production lines, and to develop machines with a deep understanding of their issues and requirements.

While we have adapted for customers with dry products by improving weighing accuracy and operating efficiency, the CCW-AS series improves product feeding for sticky wet products, and the waterproof model is IP69K compliant to accommodate a wider range of products. In recent years, we have also been working on technological developments in collaboration with various universities as part of open innovation.

Finally, please give a message to customers who have installed Ishida's weighing machines.

We would like to thank our customers for choosing Ishida's multihead weighing machines, and we will continue to develop machines to improve productivity and contribute to food safety and security more than ever before.

We will continue to respond to the trust given by our customers not just as a supplier, but as a reliable partner.



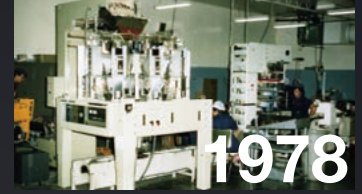
Deputy general manager R&D department 1 Hideshi Miyamoto



The **history** of Ishida multihead weigher

- **1972** The world's first computer scale "ACW" revolutionises the food packaging industry.
It all began when a customer requested an automatic weighing machine for green peppers.
- **1978** Ishida exported the ACW overseas for the first time (to Australia)
- 1979 Launch of CCW Series CCW : Computer Combination Weigher
- **1981** Launch of CCW-LC Series
- 1982 Launch of CCW-RLC Series
- 1984 Launch of CCW-S Series
- 1988 Launch of CCW-Z Series
- **1990** Foundation of Ishida do Brasil / Local production also commences
The first CCW produced at Brazil by IdB was the CCW-S-211
- 1990 Launch of the world's first micro CCW Series.
The Micro CCW is compatible with the world's smallest weighing increments (0.01g).
- 1996 Launch of the CCW-NZ Series
- 1997 Established local production at IEML(Ishida Europe Manufacturing Limited)
- **1998** Ryuichi Ishida awarded the "Circle of Honor Award" by the Snack Food Association at Snaxpo '98
Circle of honor : The award is given to executives of companies who have made outstanding contributions to the development of the snack food industry.
Reason for the award: Contribution to the development of the CCW for the snacks industry
- 2000 Launch of the CCW-M Series
- 2004 Launch of the CCW-R Series
- **2005** Shanghai Ishida Electronic Scales started full-scale operation and commenced local production of the CCW-SE
The first CCW produced by Shanghai Ishida was the CCW-SE-210
- **2012** Local production of the CHW commences at Ishida India
- 2012 Launch of the CCW-RV Series
- 2017 First Computer Scale was certified as Mechanical Engineering Heritage
Mechanical Engineering Heritage no.89
- 2022 Launch of the CCW-AS Series

1972



1978



1981



1990



1998



2005



2012



CCW-AS series

2022