

# CCW-M SERIES

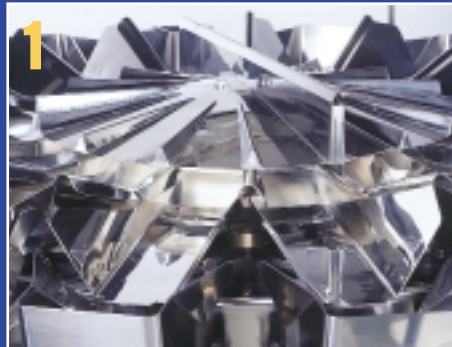
## Advanced Multihead Weighers



# IMPROVEMENTS IN SPEED, ACCURACY & HYGIENE

## 1 IMPROVED DISPERSION OF PRODUCT TO HOPPERS

To optimise weigher performance the vibration amplitude of the dispersion feeder table and radial feeder troughs has been further increased. The weigher's Auto Feed Control function continually adjusts the duration and amplitude of vibration to compensate for any build up of product or debris (such as flavouring or ice particles) without the need for operator intervention. In addition, radial feeders and hoppers are fully interchangeable to reduce downtime for cleaning.



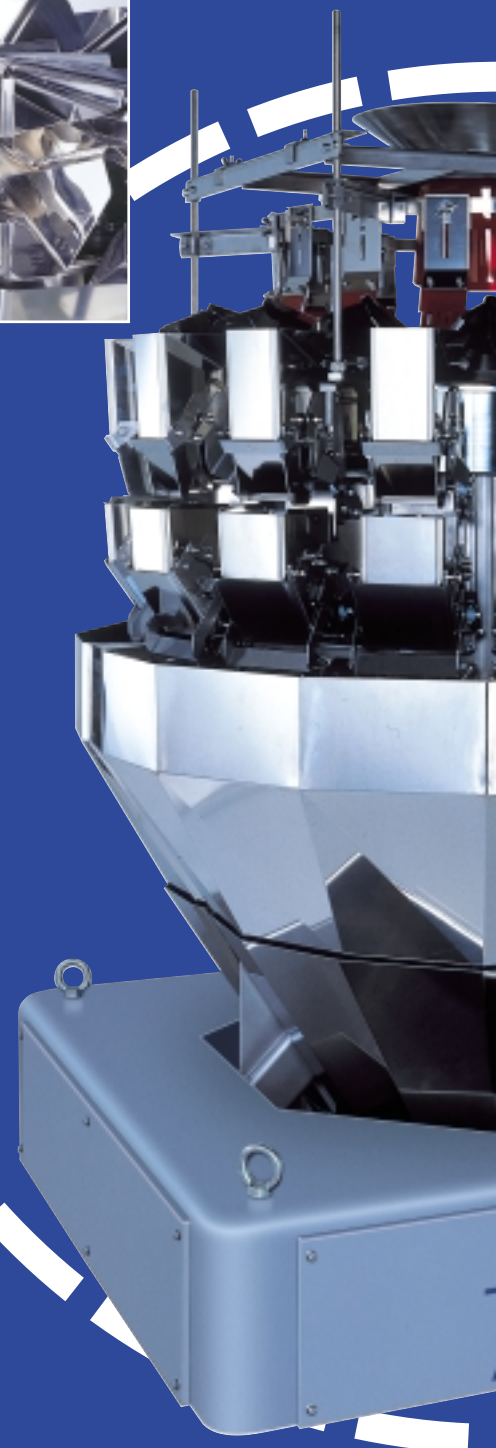
## 2 STABLE AND ACCURATE HOPPER OPERATION

Hopper movement is smooth, stable and controlled. The hoppers are driven by stepper motors, with no reliance on external springs to reduce the accumulation of dust and debris. Special needle bearings in the drive mechanism further enhance smooth operation. Mechanical rigidity and reliability have also been improved. Drive units feature corrosion-proof stainless steel covers. All hoppers and chutes can be released and replaced quickly to minimise cleaning time, while rounded corners of troughs, chutes and hoppers prevent product build-up.



## 3 ISHIDA LOADCELLS ENHANCE WEIGHER PERFORMANCE

Ishida developed high speed loadcells to improve sensitivity, response and accuracy.



The CCW-M Series takes the advanced technology of Ishida multihead weighers another step forward, making them even faster and more accurate. New features have been added which reduce cleaning and maintenance time. The machine-operator interface and the ease and responsiveness with which the weighers can form part of an integrated factory system have also been improved.



#### 4 DISCHARGE CHUTE OPTIONS FOR HIGH-SPEED WEIGHING

Segmented discharge chutes prevent product swirling. Special high-speed discharge chutes help ensure that all components of a weighment reach the outlet at the same time. This provides a more compact dose of product to the packaging machine to increase weighing speed and to reduce waste.

Optional timing hoppers can incorporate inserts to further compact each weighment.

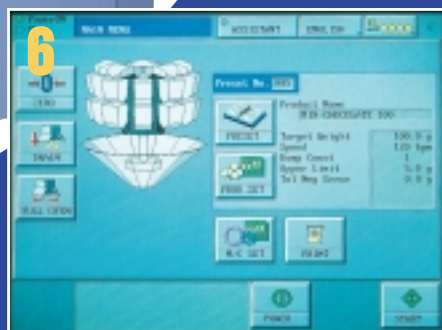
For speeds up to 160wpm on single discharge machines, parabolic lower discharge chutes are available to reduce product streaming, thus enabling a compact 'slug' of product to be delivered to the packaging machine.



#### 5 SLIM MAIN BODY

The main body of the machine has been reduced in size, improving access to contact parts and drive units. This allows greater flexibility in positioning the outlet chute to optimise the interface between weigher and packaging machine.

Waterproof weighers are protected against the intrusion of dust and water to IP66 standard, enabling the main body and contact parts to be hosed down thoroughly.



#### 6 EASY-TO-READ GRAPHICS

The 10.4" colour display of the new 32-bit Remote Control Unit (RCU) uses the latest TFT screen technology to provide the highest standards in clarity and brightness. Memory cards are available for memory expansion, back-up of software parameters and off-line data transfer.

The CCW-M can be interfaced via a 'DDE' link to many Windows® packages, such as Excel® for integration into factory management and control systems.

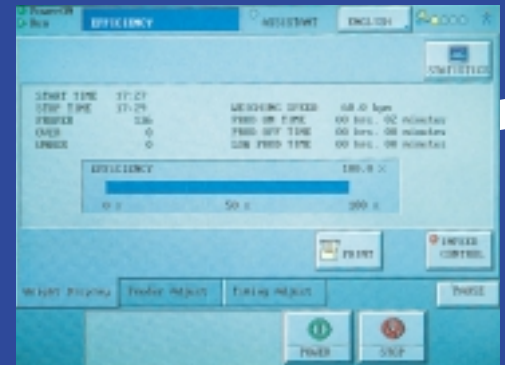
In addition, the 32-bit RCU can operate as a web server, allowing a networked PC to monitor and operate a networked weigher from a central point using a standard web browser such as Internet Explorer®.



# CLEAR, INFORMATIVE, RESPONSIVE: THE REMOTE CONTROL UNIT

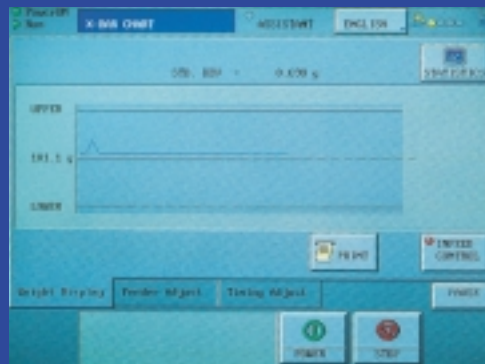
## EFFICIENCY SCREEN

Displays daily production efficiency statistics



## X-BAR CHART SCREEN

Displays weight variations over a period of time to highlight inconsistencies in product output.



## FEEDER ADJUSTMENT SCREEN

Product flow to the hoppers can be adjusted for optimum weighing efficiency.

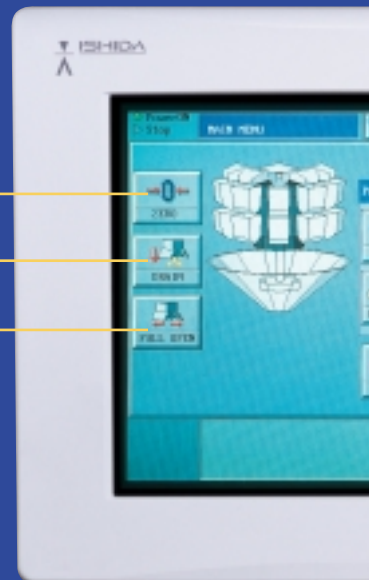


## PRODUCTION SCREEN (SINGLE WEIGHING)

Real-time weigh data is displayed to inform the operator of current production conditions.



Start-up assistant



Zero adjustment key

Drain key

Full open hopper lock key

**No part of a modern weigher is more important than its interface with the operator and with those who seek useful data for reporting, planning or immediate action.**

Ishida's CCW-M RCU and its interactive software are designed to be informative, without being cluttered, enabling even the trainee operator to understand and control the machine with maximum efficiency and speed of response. Yet a wealth of information is easily accessible on everything from weight deviation to production efficiency. The touch screen display makes maximum use of the software's rich colours, ensuring that the screen content is sharp and easy to read, even at a distance. Different languages can be called up at the touch of a button and a fully waterproof version is available.

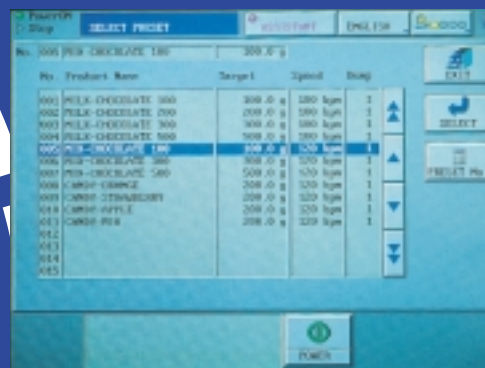
## START-UP ASSISTANT SCREEN

This feature guides and instructs the inexperienced operator through the required steps leading up to production.



## CHANGE OF PRESET SCREEN

Up to 50 product presets can be stored for fast product changeover



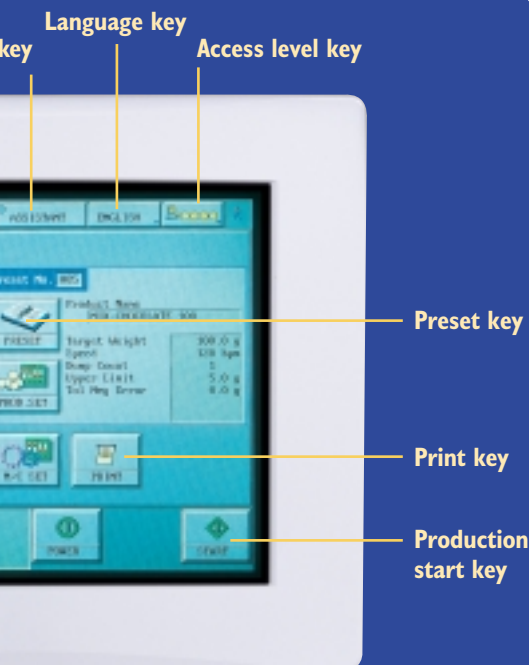
## ZERO ADJUSTMENT SCREEN

Weigh hoppers are set to zero prior to production for optimum weighing accuracy



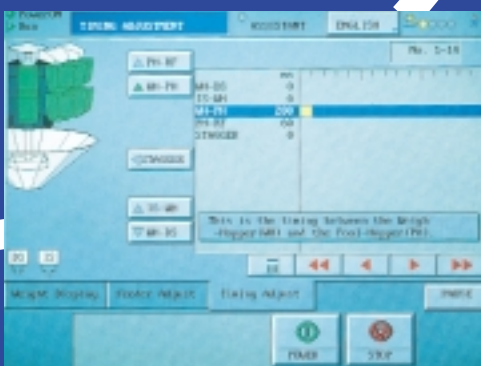
## MAIN MENU SCREEN

The main functions keys for daily production are displayed



## HOPPER TIMING SCREEN

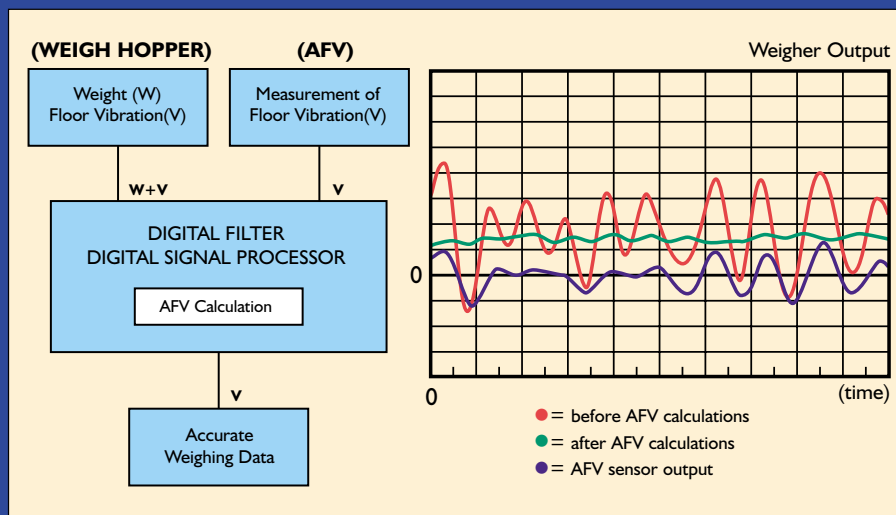
Open and close patterns can be customized to individual product requirements.



# ISHIDA'S UNIQUE COMBINATION OF TECHNOLOGIES DELIVERS UNBEATABLE ACCURACY AND SPEED

A special system, unique to Ishida weighers, measures floor vibration and automatically compensates for it. This Anti-Floor-Vibration (AFV) feature is combined with Digital Filtering and Digital Signal Processing (DSP) to deliver highly accurate weight readings very rapidly.

Another unique feature of this system is that each weighment receives an extra check just prior to discharge.

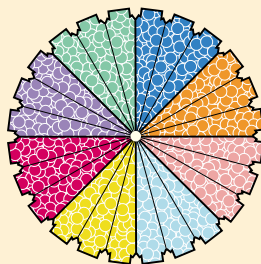


## MEETING YOUR EXACT REQUIREMENTS

A single weigher can function as two separate weighers, handling different products or target weights.



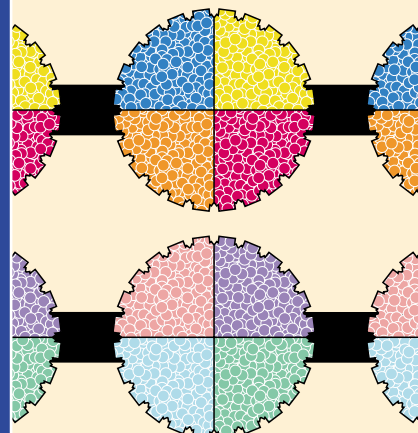
A single weigher can mix-weigh up to 8 different products.



**Consecutive topping:**  
a further boost for accuracy in mix-weighing.

In multi-product weighing, the target weight for each product takes account of the actual weight of the previous product in the mix. This Ishida feature improves overall accuracy by preventing allowable errors from adding together.

Weighers can be combined electronically to mix-weigh a virtually limitless number of different products.





# A TRADITION OF INNOVATION AND RELIABILITY

Ishida has been specialising in weighing and packing equipment for over 100 years, bringing numerous technological breakthroughs to the industry.

Among its successes was the world's first computer-controlled multihead weigher, which was developed in 1972. Since then, this technology has spread across the world into an ever widening range of applications. Despite the inevitable entry of competitors, Ishida remains its leader to this day, with the largest installed base and annual world sales.

By investing in research and development, and making use of its unrivaled experience, Ishida has also maintained a clear competitive edge in the technology. In addition to multihead weighers, Ishida has built up a reputation for its checkweighers and for overall expertise in the project management of packing line installations, both large and small.



## QUALITY CONTROL AT ISHIDA

Ishida's aim is to offer products that will never fail. Strict quality control enables us to supply reliable products. Attention to detail in matters such as material selection, quality inspection and welding has become legendary. Problems detected in the quality inspection process for example are immediately fed back to the responsible sections. Inspection of loadcells, circuit boards and other key components is particularly stringent. Only components which have passed ageing and temperature tests are incorporated. Similar tests are carried out after assembly. Even components which are already on the market are subjected to continuing long-term testing for further improvement.

## SERVICE AND SUPPORT READILY AVAILABLE

Ishida Europe aims to offer support during the product and process evaluation, machinery selection and installation, and throughout the lifetime of the equipment.

### Among the range of services available are:

- ▼ Project management of the full line installation process.
- ▼ UK based manufacturing and R&D centre.
- ▼ Purpose-built demonstration and training facilities.
- ▼ A team of service engineers across 20 countries
- ▼ Help desks operated by experienced service engineers.
- ▼ 24 hour support helpline and spare parts supply.
- ▼ Tailored finance packages.

# ABOUT ISHIDA EUROPE

A subsidiary of Ishida Co. Ltd Japan, Ishida Europe designs, manufactures and installs advanced systems for weighing, packing, labelling and handling products, enabling customers to maximise packing line performance.

Ishida are the inventors and established world leaders of multihead weighers and a leading supplier of in-line checkweighers. The full range of machines and solutions available from Ishida includes: multihead weighers, bagmakers, checkweighers,

weigh-price-labellers and pack handling systems. A dedicated in-house projects team is also available to deliver the expertise needed to plan, design and execute turnkey installations.



PRECISELY THE SOLUTION

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