

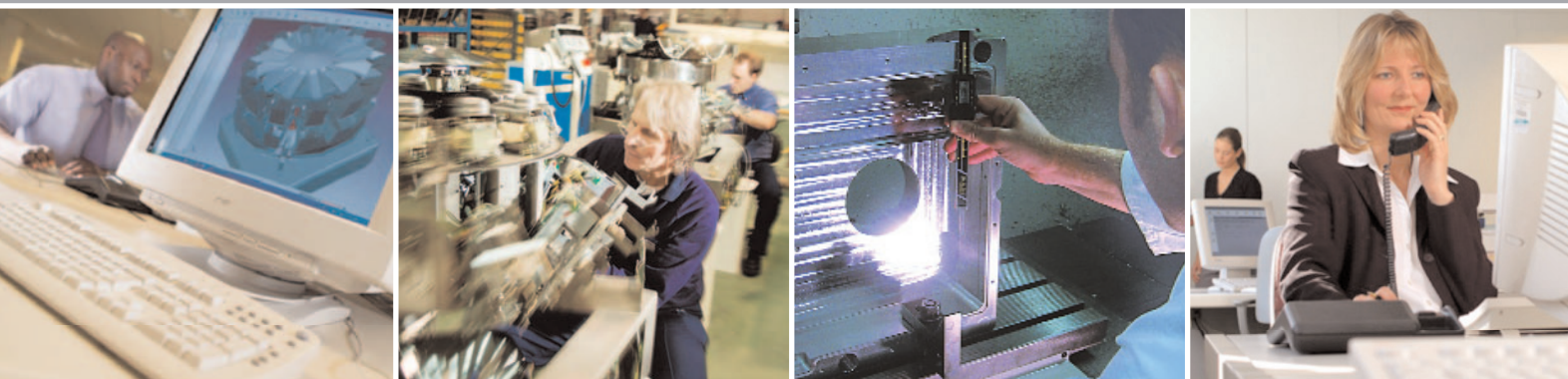
## Working with you every step of the way

Our extensive R&D investment is directed at meeting the challenges of the fast-changing food industry around the globe.

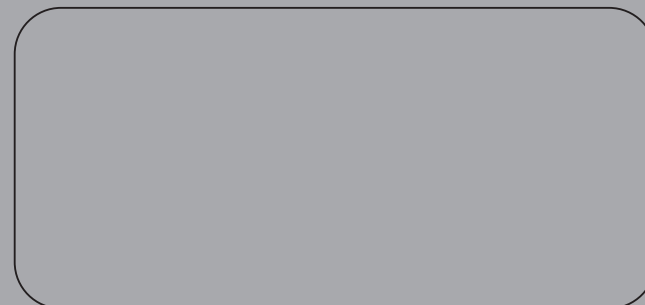
We aim to support our partners fully, from the very start of the buying process, and you will find many equipment brochures, visual animations and case studies available on our website. When you are ready to make contact, a well-resourced network of Ishida companies, distributors and agents, extending across Europe, the Middle East and Africa, can provide advice and organise demonstrations and trials.

Installation is rapid and efficient. For integrated packing lines, we use proven project management techniques and methodologies, tuned to your key objectives and specifications.

A dedicated pan-European service engineering team helps to maximise the performance, functionality and reliability of our installed base. In addition, spares facilities are strategically placed throughout the territory, offering 24-hour delivery in most cases.



helpline • spares • service • training

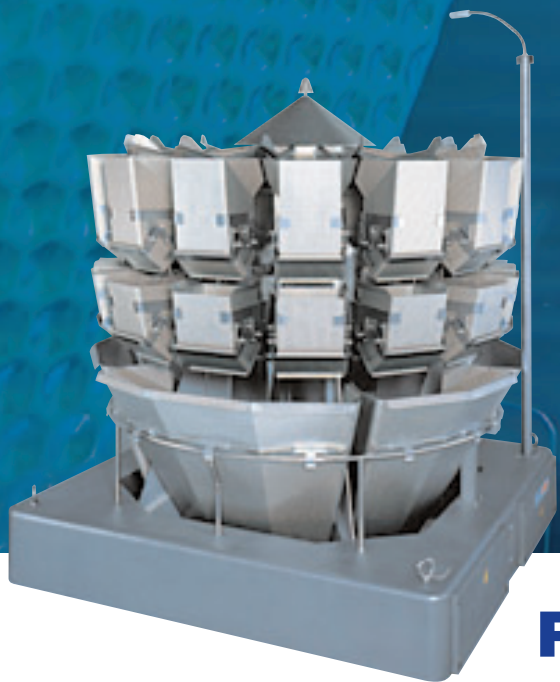


# R-series

Ultimate performance multihead weighers







The R-Series takes precision multihead weighing to new levels of productivity

Innovation  
Commitment Knowledge  
Experience Quality  
Precision Performance

## R-series

**Multihead weighing speeds up the packing process, cuts labour costs and reduces product giveaway.**

**The new Ishida R-Series takes all these benefits a major step further, using extensive applications experience and incorporating the latest technology. It achieves this despite tightening regulations and ever-increasing product changeovers.**

### Higher speeds, greater accuracy, lower giveaway

Improvements in software, in digital filtering speed and in Ishida's Anti-Floor Vibration (AFV) technology combine to deliver the fastest and most accurate multihead weighers in the world.

The R-series calculates hopper combination weights in one fifth of the time, enabling it to re-check the optimum combination per discharge and to cut giveaway by up to 0.5% compared with current best technology.

### Better control of product flow

Ishida's new Automatic Feeder Drive (AFD) system optimises feeder vibration automatically, helping to counteract any instabilities in the product infeed.

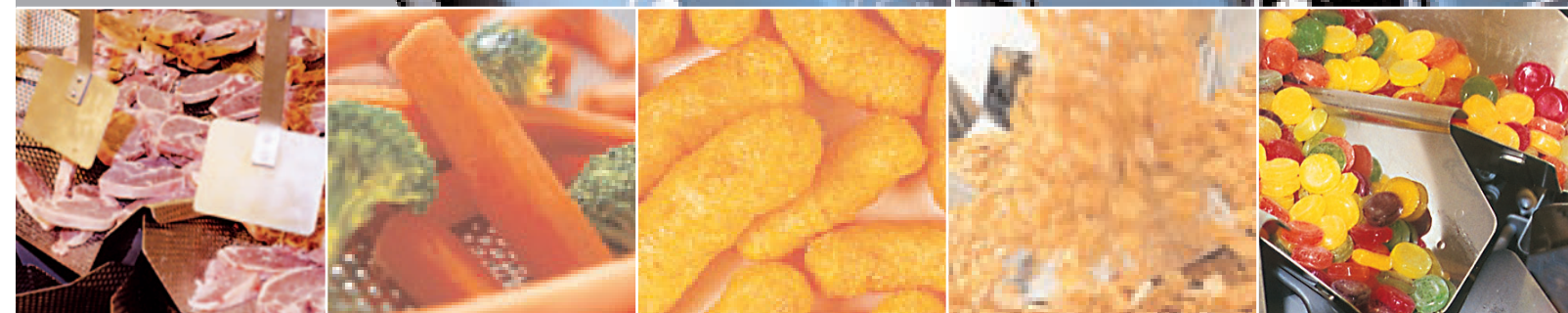
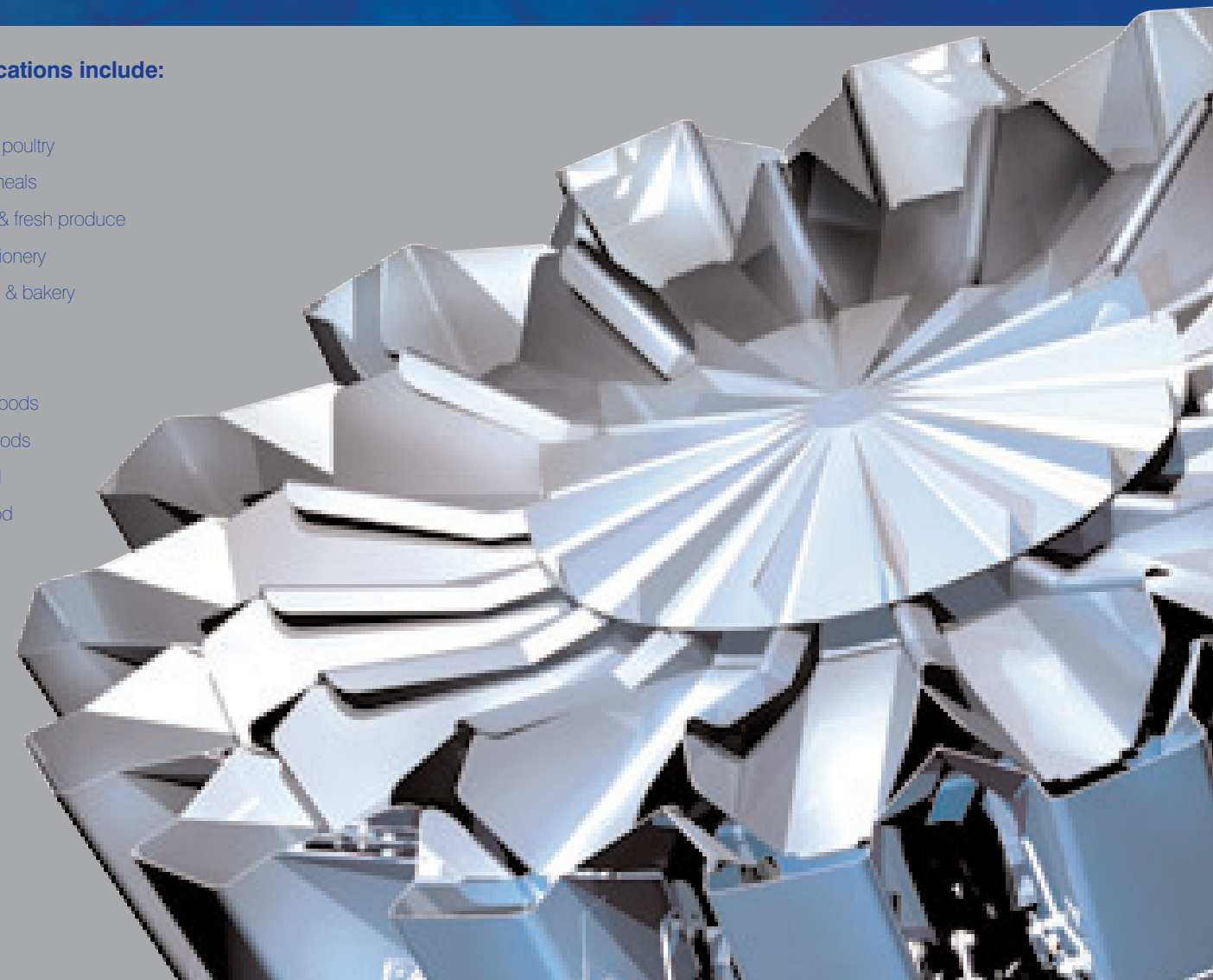
### Hygiene made simpler

R-Series features downtime-reducing advances in design, aimed at avoiding product and debris build-up and making cleaning easier. These include drive units with rounded edges and simpler hopper mountings.



### Applications include:

snacks  
meat & poultry  
ready meals  
salads & fresh produce  
confectionery  
biscuits & bakery  
cereals  
pasta  
frozen foods  
dried foods  
petfood  
non-food

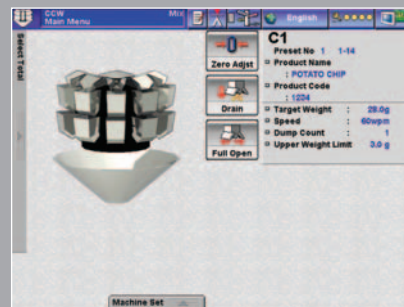






# Easier to operate, easier to integrate-with new levels of functionality and control

A powerful, intuitive new graphic interface makes life much simpler for the line operator and also speeds up training. Improved networking capabilities enable central management to obtain and deliver the information it needs for efficient and profitable operation across single or multiple sites.



## Easier to get new operators up-and-running

Intuitive, multi-language operation. Comprehensive Help functions include 'Start-up Assistant' and guidance as to the range of settings available. Manuals and tutorials are accessible on screen.



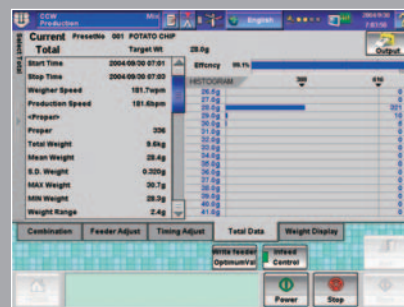
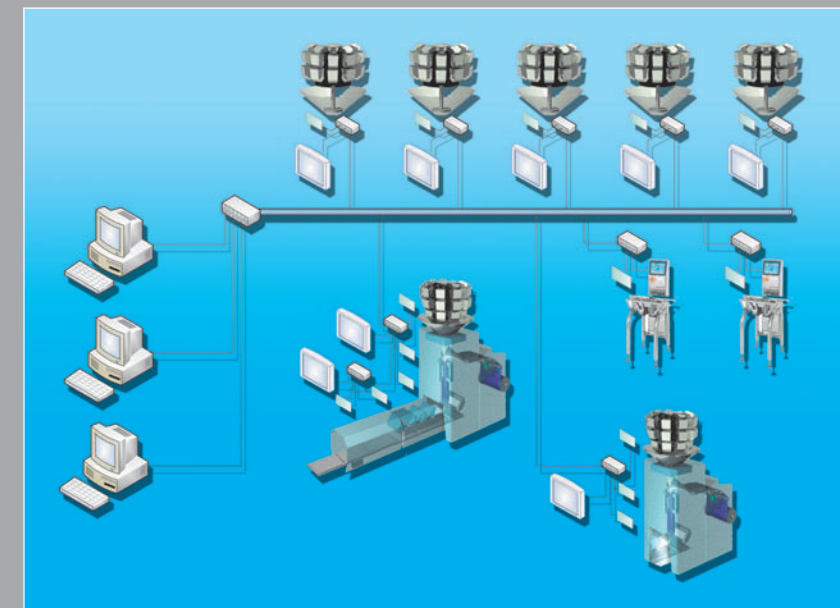
## Easier to monitor and control product flow

Ishida's Automatic Feeder Drive (AFD) optimises feeder vibration for smoother product flow. Optional USB camera allows real-time observation of product conditions at the top of the machine.



## Easier to change products

One touch is enough to switch between settings. A built-in camera can image any pack and store it for future recognition, virtually eliminating mistakes.



## Easier to assess production quality

View for example, daily production efficiency and consistency of output charts. Examine performance locally or across the web, right down to each individual weighing head.



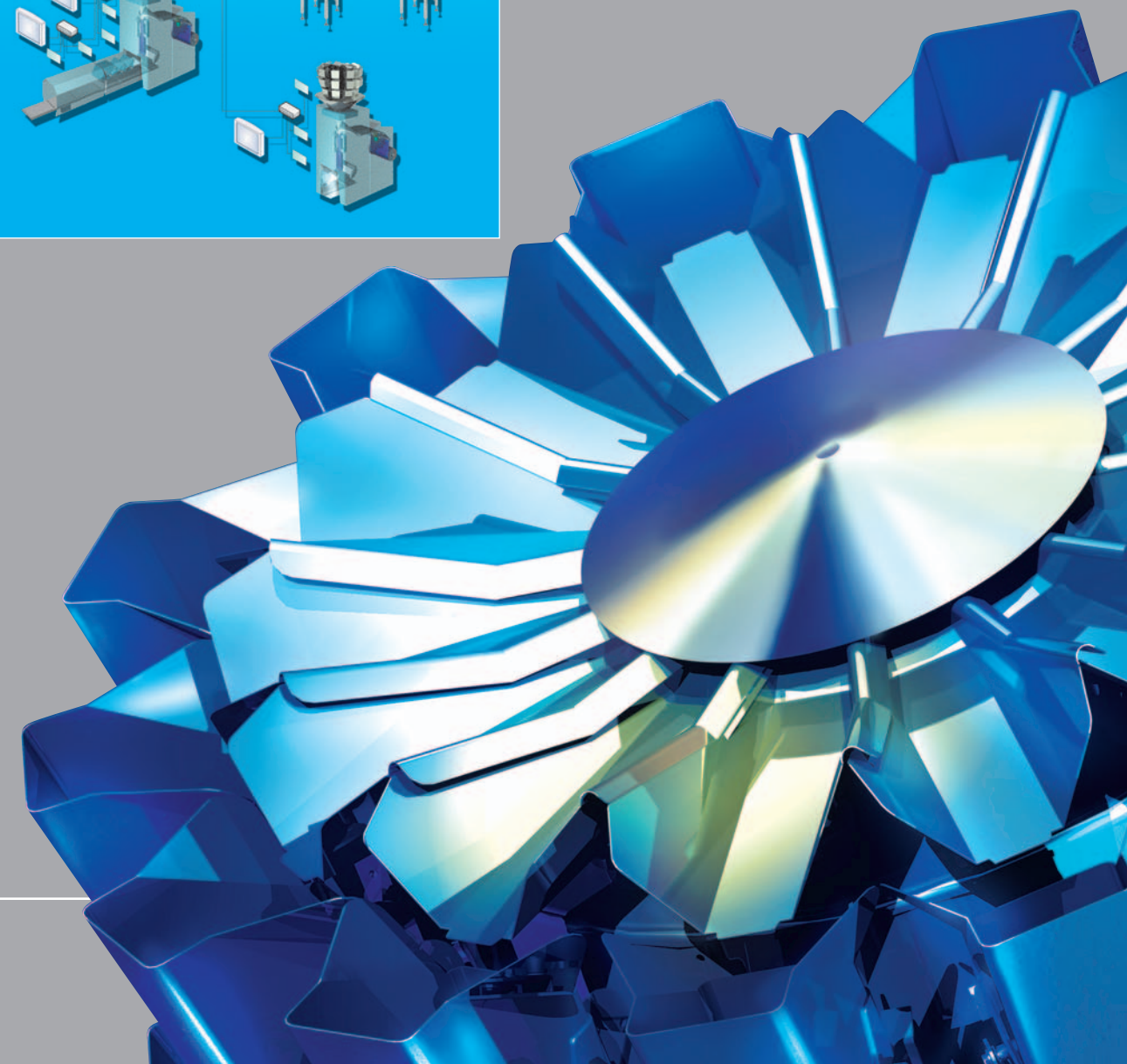
## Easier to network

Based on the Windows XP® platform, the R-Series readily integrates into an Ethernet network, where it can exchange preset and production data with other equipment and PCs.



## Easier to upload software and presets

All-flash memory means that none of the operating system or data is permanently 'burned in'. Additional or upgrade software or presets can be installed via a compact card.





The R-Series: new technology delivers greater speed and accuracy with less giveaway

Ishida: here to tackle the challenges you face, across all applications and packing tasks



Mix applications take full advantage of R-Series' high speed and accuracy

**Ishida invented the multihead weigher and launched it into the food industry across the world. Ever since, as the recognised market and technology leader in this field, Ishida has been improving and refining multihead weighing by a combination of applications experience, advanced technology and innovative engineering.**

#### **The principle of multihead weighing**

A multihead weigher typically contains a row of between 10 and 24 weighing hoppers. From these, it rapidly generates accurate weighments by selecting a suitable combination of hopper content weights and releasing them into the pack.

#### **Faster calculation leads to a greater choice of suitable combinations**

R-Series weighers benefit from a new, high-speed combination calculation system. In the time that it takes a conventional weigher to calculate a single 'suitable' combination of hopper contents, the R-Series produces several. The weigher is then able to choose from these alternative combinations, rather than relying on a single result which could, owing to changes in temperature or background vibration for example, be outside the acceptable range.

#### **More combinations mean more accurate and reliable weighments**

With more combinations to choose from, weights outside the acceptable range (which often trigger a 'missed cycle' on a conventional machine) are virtually eliminated. Significantly smaller 'offsets' (additions to the target weight in order to avoid underweight) are needed, and accuracy is therefore improved.

#### **Greater accuracy means significantly less giveaway**

Tests have demonstrated that the greater accuracy and reduced need for 'offsetting' in R-Series weighers can reduce giveaway by up to 0.5% in comparison to conventional machines.

#### **Especially suitable for high-speed and mix applications**

The above developments make the R-Series particularly suitable for high-speed, low target weight applications such as snacks and confectionery. For example, a single discharge 14 head machine can achieve speeds of up to 200 wpm, and the savings on giveaway over large production runs can be impressive.

**At Ishida we have the resources to contribute effective packing line ideas and solutions in applications ranging from snacks and confectionery through to fresh produce and complex ready meals.**

We can help at almost any point in the packing process, as demonstrated by a range of equipment that goes far beyond multihead weighers. It includes checkweighers, snackfood bagmakers, topping systems, traysealers, weigh price labellers, flexible packing systems, the Ishida Retail Ready Line™ and all the associated equipment and project work. We supply and install individual items, complete lines, entire plants and multi-site projects anywhere in the world.

Through more intelligent automation and by overcoming technical engineering challenges we can help you to increase productivity on your existing lines and to take advantage of new, profitable opportunities.

retail ready line  
checkweighers  
snackfood bagmakers  
fresh food weighers  
flexible packing systems  
weigh price labellers  
seal testers  
traysealers

