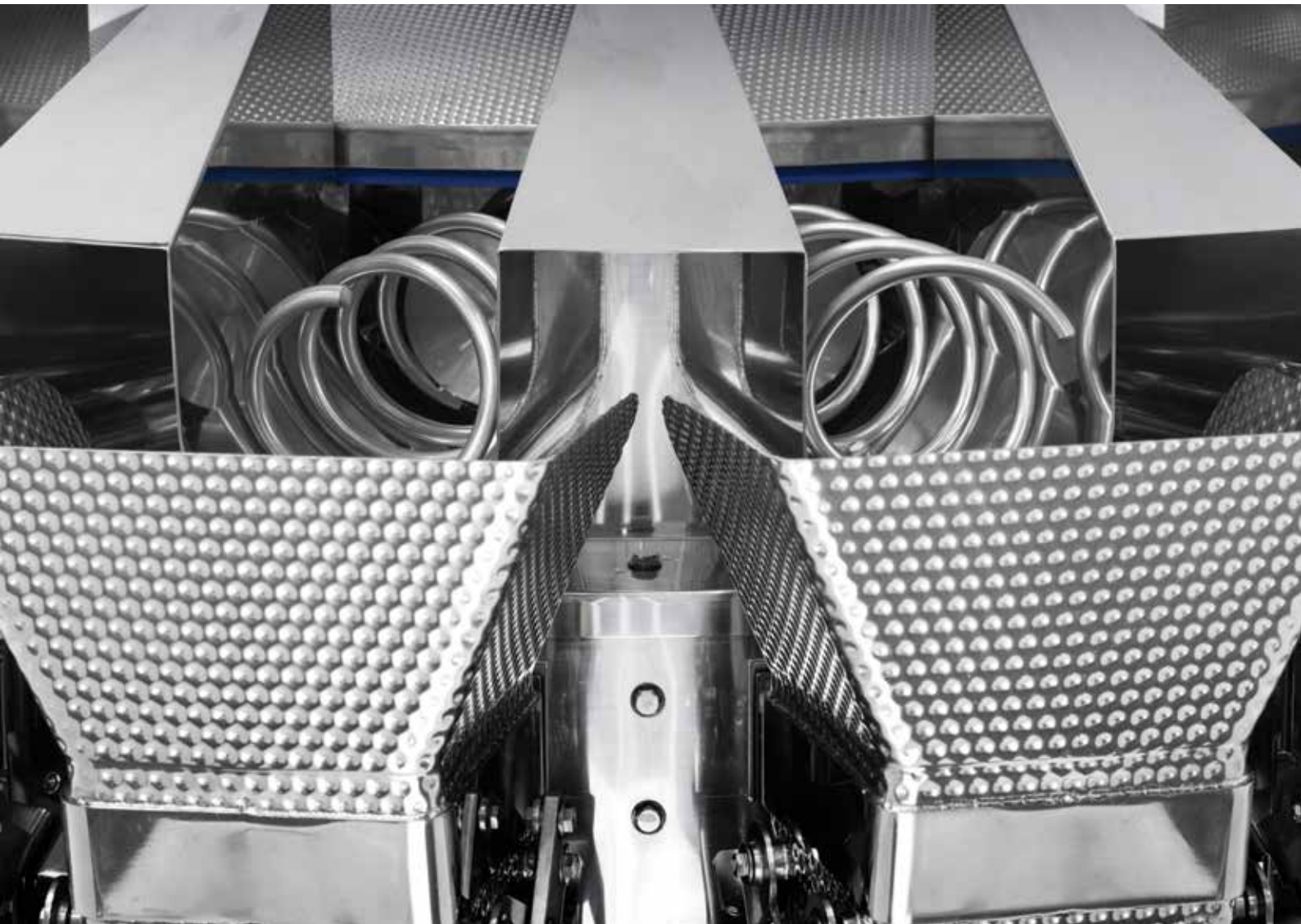
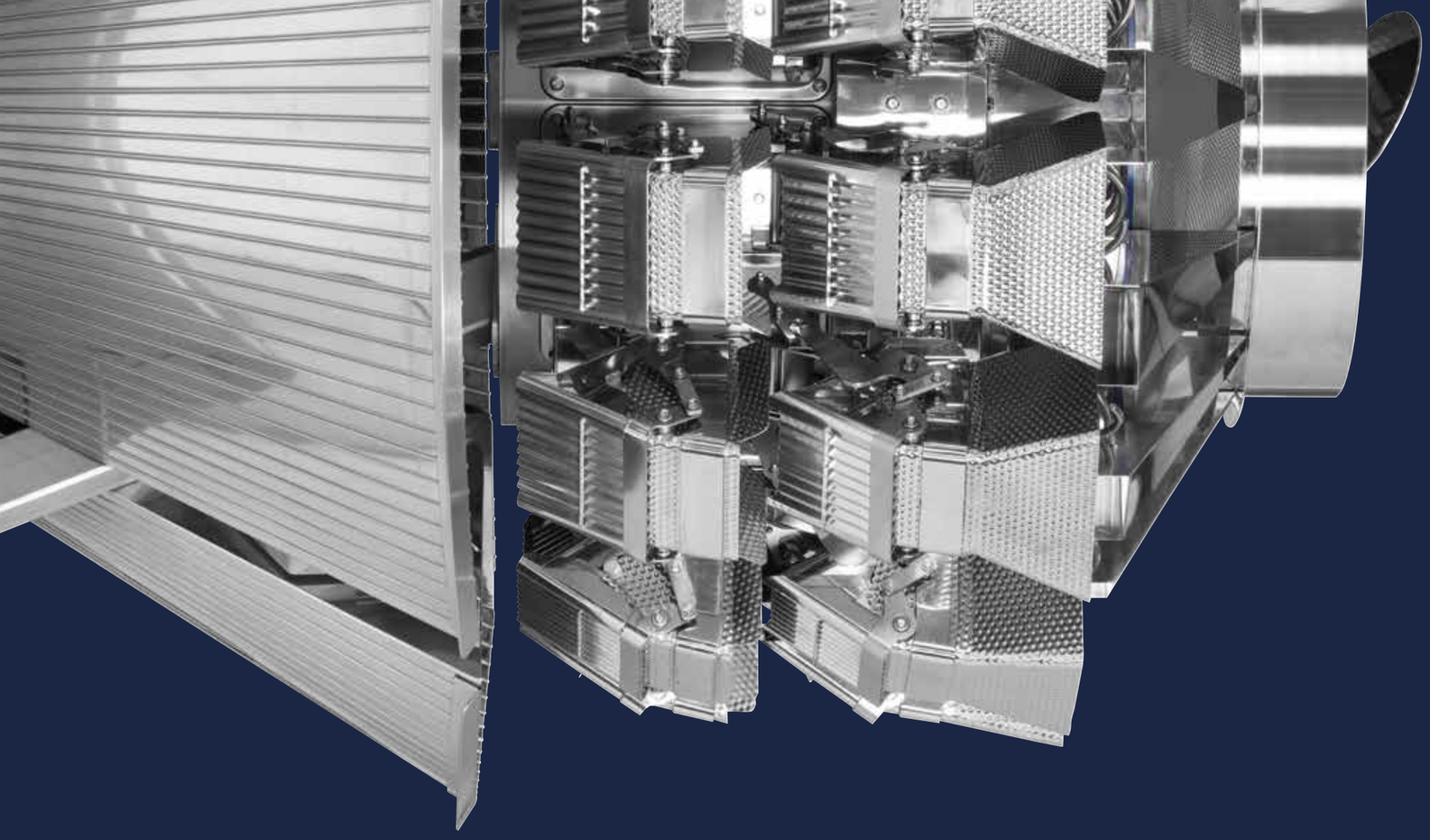
ISHIDA

Screwfeeder Multihead Weighers

Weighing and packing solutions for fresh produce





Screwfeeder Multihead Weigher

Ishida Screwfeeder Multihead Weighing

Leading at the beginning, still leading today. Ishida invented the multihead weigher, enabling accurate weighing of products into packs to be carried out automatically and at high speed.

Since then, Ishida has maintained its brand and technical leadership in the field with one advance after another. At the same time Ishida has developed into a provider of complete weighing and packing solutions, including checkweighing, tray sealing, X-ray inspection and pick-and-place casepacking systems.

Faster calculation, more combinations, greater efficiency
Today's unique Ishida combination calculation hardware and software is fast. So fast that it can put together not one but three different combinations for each weighment and double check the results. This virtually eliminates the situation that can occur with ordinary multiheads, where a wrong weighment has to be dumped, causing the weigher to miss a cycle.

Accuracy that drives down giveaway
The advanced technology behind this speed and efficiency also brings greater accuracy. This ensures that every pack of chicken drumsticks, pork medallions or fish fillets has a greater chance of being close to the target weight, maximising yield and reducing giveaway to fractions of a gram.

Engineered to meet the special challenges of screwfeeder weighing
It takes robust equipment to withstand the strong forces needed to disperse incoming pieces, to push forward large amounts of sticky product and to endure the toughest of cleaning regimes. Ishida's recognised engineering expertise is applied to making our weighers better equipped for the task than other brands.

Taking weigher hygiene to new levels
Ishida also combines its development resources with its ever-growing practical experience to eliminate food traps and make key parts both easier to reach and more effectively cleanable using standard methods.


Marinated meat & poultry


Fresh fish & seafood


Fresh meat


Fresh poultry

How it works: the secrets of a spiralling success

World-leading speed and accuracy plus screwfeeder gentle propulsive power

1. **Product is fed to the top of the weigher where a rotating dispersion table moves it out towards the feeder troughs.**

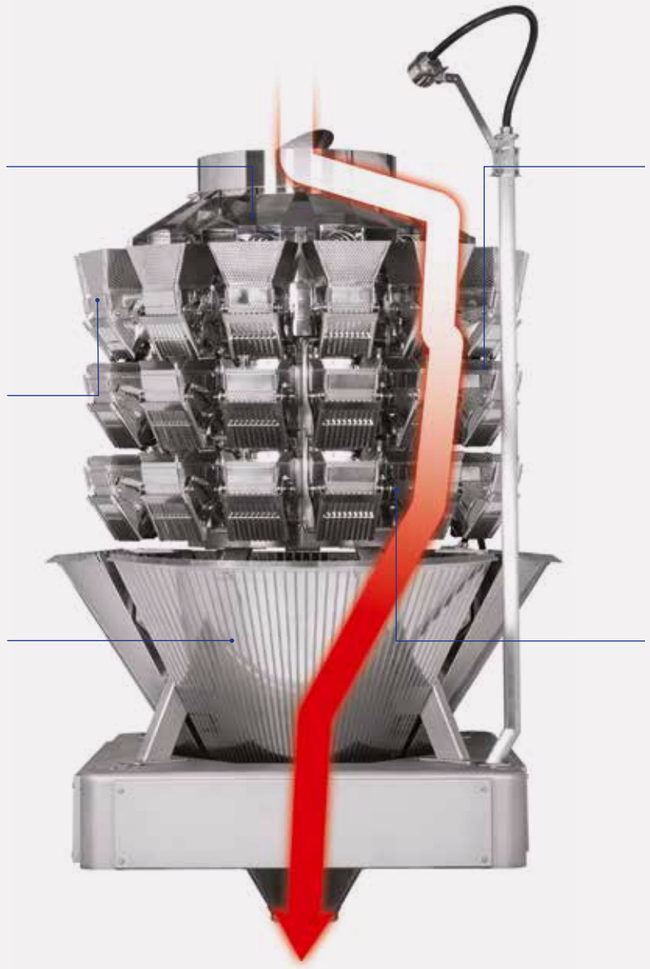
   To optimise product flow, Ishida Screwfeeder Weighers now have specially strengthened dispersion tables. These units are very hard-wearing and resistant to impacts and rotational acceleration.

3. **On some models, the pool hopper has a photocell which controls the screw rotation. This ensures the hoppers are fed with an adequate amount of product.**

   Ishida offers the largest range of hopper types and sizes.

5. **The product released from the opened weigh hoppers is channelled by a discharge chute into the packaging system. In many cases it is made more compact by being collected in a timing hopper.**

   Ishida discharge chutes are specially strengthened to take the rigorous cleaning regimes associated with fresh protein products.



2. **In each trough, a powerful screw gently transfers product into the pool hopper beneath.**

   Ishida pool hoppers can be fitted with sensors to ensure just one product piece per hopper.

4. **The integrated computer picks the weigh hoppers whose contents will combine to give the right target weight, and releases only those hoppers.**

   The Ishida combination computer is so fast that it presents not one but three viable combinations for release, greatly increasing efficiency.

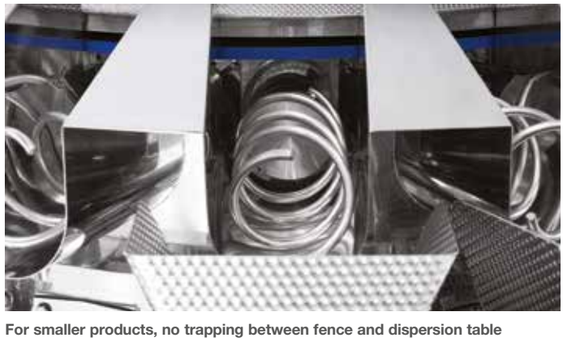
6. **'Booster' or 'memory' hoppers collect unused weighed product. They provide extra known weights for use in combinations, increasing speed and accuracy.**

   Booster hoppers come as standard on some Ishida models.

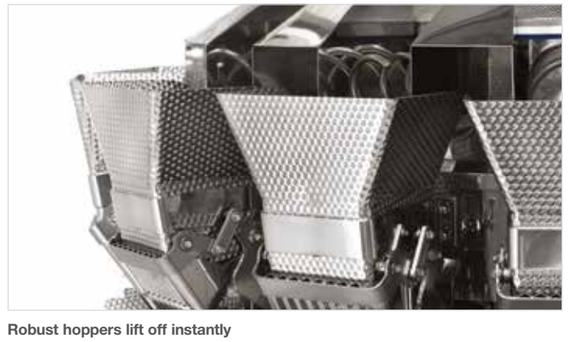
Just a few of the details that turn a screwfeeder into a technology leader



More hygienic, less complexity



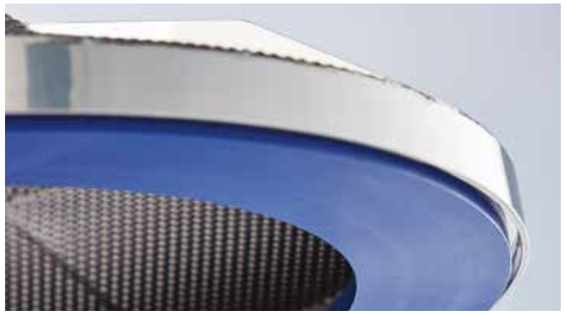
For smaller products, no trapping between fence and dispersion table



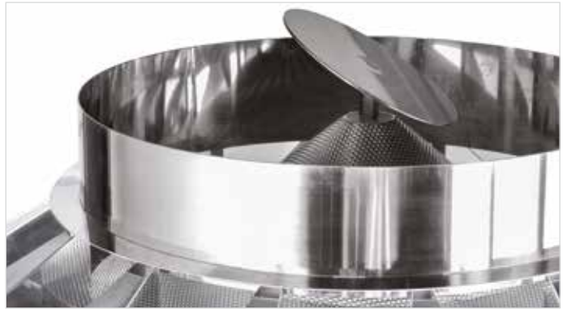
Robust hoppers lift off instantly



Pool hopper photocell control



Dispersion table effectively sealed in



Simple infeed ring and spreader plate



Attaching and removing screws now easier



Smooth weigher exits assured with the new Ishida Coruglide discharge chutes

More hygiene, less complexity
Product entering the machine flows cleanly to the screwfeeder thanks to the elimination of potential trapping points. The key is a new, simple-to-remove and clean geometry at the top, with no complex clips or fussy roller systems.

Dispersion table effectively sealed in
A lip around the underside of the dispersion feeder table, combined with the circular blue PTFE gasket, eliminates the gap between table and body. The resultant labyrinth seal is virtually impenetrable by food fragments, yet the table can be lifted off in seconds for cleaning.

For smaller products, no trapping between fence and dispersion table
The fence is the dart-shaped structure preventing product from falling between two screwfeeder troughs. On some weighers there is a potential trapping point (especially for smaller product pieces) where it meets the dispersion table. Ishida has designed this out by introducing square-ended fences.

Simple infeed ring and spreader plate
The screwfeeder design has been optimised by eliminating bug traps and reducing the number of contact parts. The simple lift off infeed ring is a good example. The spreader plate rotates with the dispersion table to give an even product feed to all the heads.

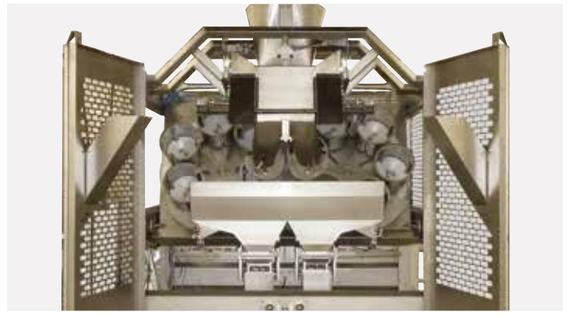
Robust hoppers lift off instantly
As an alternative to cleaning-in-place, hoppers can be lifted off by hand and placed on a washwall or in a washing machine. Replacing them is equally quick and simple.

Attaching and removing screws now easier
A twist-to-fit approach makes it fast and simple to insert and remove the screws by hand. Quality bearings help ensure that the solidly supported Ishida screws deliver long-lasting performance in a task which can speedily wear out less robustly constructed equipment.

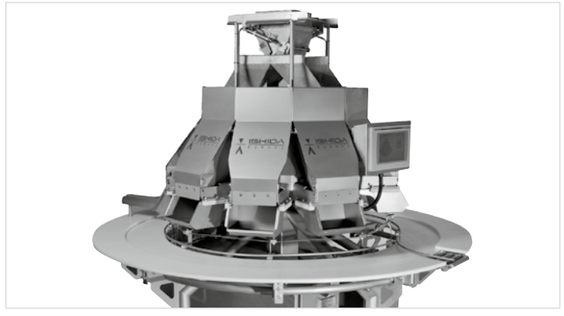
Pool hopper photocell control
With smaller target weights, weighing can be more efficient when there is just one product piece to a head. On some models, a photocell in the pool hopper can sense when one piece has fallen from the trough above, causing the screw to stop turning until the contents have been used in a weighment.

Smooth weigher exits assured with the new Ishida Coruglide discharge chutes
Corrugated polished stainless steel, resists sticky product pieces. Ribbed surface encourages steady, controlled fall. Coruglide, embossed and C4 options available.

Enhancing competitiveness in real-world situations



Orbicote



Rotobatcher



Weigh-Batcher



Batching Table

Ishida provides systems that maximise your profitability.
Three approaches are shown above that enable staff to carry out batching and styling work rapidly and efficiently, in harmony with Ishida screwfeeder weighers. In the Weigh-Batcher approach, for example, you can maximise yield across a number of pack types.

Assume you are producing 1kg packs and 750g packs for retail, as well as maintaining a bulk tray output to go to butchers in retail outlets. Here, a weighment too heavy for a 750g pack will go straight for consideration as part of a 1kg pack, rather than needing to be recycled, greatly increasing efficiency. Anything unsuitable for either retail pack will be directed to the bulk system.

When screwfeeding is not the answer
With our broad knowledge of weighing and its overall role in packing, we will advise you when there are alternatives to screwfeeder weighing which may suit your particular circumstances. For example when dealing with on-the-bone products, a vibration-driven approach is often preferable, while in some cases a linearly-arranged Fresh Food multihead weigher may be economically advantageous.

Ishida Rotobatcher
Ishida's latest approach places the screwfeeder directly above the batching/styling team for maximum return on floorspace.

Ishida Weigh-Batcher
A unit combining weigher with operator stations and sophisticated signalling to maximise man-machine synergy.

Ishida Batching Table
Weighments from a screwfeeder are handled efficiently in a linear manner using simple team routines.

The broader picture that makes Ishida simply a better commercial proposition

Ishida designs and builds entire packing lines and complete packing halls, whether as upgrades of existing facilities or starting from greenfield sites.

Putting screwfeeder in its proper context

Ishida's screwfeeder for the widest range of packing applications, many of which involve fresh protein, such as meat, poultry and seafood.

For example, the packing line below includes everything needed to take a product infeed direct from a processing operation or from storage and deliver trays neatly packed in Eurocrates.

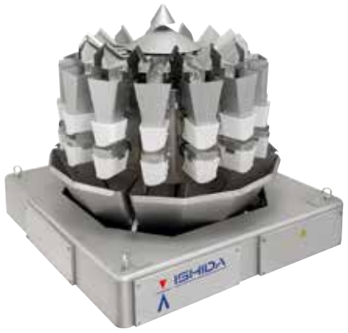
Customers find that this breadth of experience is relevant and helpful whether they are acquiring a single weigher, a part packing line or a complete factory.

This line delivers the full benefits of single source supply, with every part being available directly from Ishida.

- Full packing line including multihead weigher, gantry, infeed, conveyor, batching table, traysealer, X-ray inspection, seal testing, labelling, vision system and pick-and-place casepacking.
- Delivers sealed, labelled and inspected product ready to meet the most rigorous standards anywhere in the world.
- High performance with rapid product changeovers, integrated cleaning routines and minimum downtime.



Off-the-shelf or custom-built, Ishida has exactly the screwfeeder you need



CCW-RV-214W-1S-15-WP-SH-SF



CCW-RV-214W-1S-30-WP-SF



CCW-RV-214WB-1S-30-WP-SF

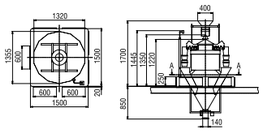
Standard range
Ishida's standard range includes models to meet all the circumstances and applications for which screwfeeder technology is now seen as tried and tested. It is the most comprehensive range of ready-to-install weighers available today.

Options and custom building
The standard range is greatly extended by readily available options such as special attachments for handling large products and fragile fish, by hopper and dispersion table choices and many more. And, when it comes to meeting challenges that have never been tackled before, our screwfeeder weigher engineering team is there to rapidly respond with all the expertise and resource of the world's leading multihead weigher manufacturer.

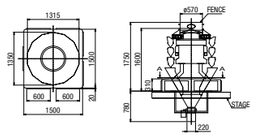
Ishida Sentinel™
The new Ishida Sentinel™ software connects compatible Ishida machines, anywhere in the world, to a central system manned by Ishida engineers. This provides complete monitoring of machines, however widely distributed, with Ishida experts on hand to identify and rectify any faults or poor performance.

With a number of different Sentinel™ pack options available customers can mix and match the different services to their needs.

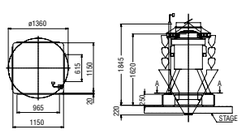
Dimensions



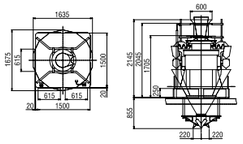
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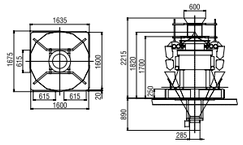
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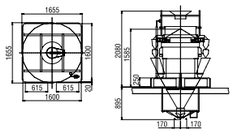
CCW-RV-214WB-1S-30-WP-SF



CCW-RV-214W-1S-50-WP-SF



CCW-RV-214W-1S-70-WP-SF



CCW-RV-220W-1D-30-WP-SF

Drawings for
CCW-RV-220WB-1D-30-WP-SF
CCW-RV-220W-1D-50-WP-SF
CCW-RV-220W-1D-70-WP-SF
are available on request.

Performance		CCW-RV-214W-1S-15-WP-SH-SF		CCW-RV-214W-1S-30-WP-SF		CCW-RV-214WB-1S-30-WP-SF		CCW-RV-214W-1S-50-WP-SF	
Max. weighing speed*		55 WPM		55 WPM		55 WPM		55 WPM	
Max. vol. for weighing (per single dump)		1.2 litres		4.5 litres		4.5 litres		10 litres	
Weighing capacity/range (per single dump)		up to 500g	up to 1000g	up to 1000g	up to 2000g	up to 1000g	up to 2000g	up to 4000g	up to 8000g
Minimum graduation		0.1g	0.2g	0.2g	0.5g	0.2g	0.5g	0.5g	1.0g
Specification									
Touch screen display (RCU)		12.1" Colour LCD Display							
Number of presets		200							
Weigh cell		Double-beam strain gauge load cell							
Material		Product surfaces are made of stainless steel or other sanitary materials							
Options		Various options are available							
IP test rating		IP66 Approval							
Power	Wattage	0.6kW		0.6kW		0.6kW		0.6kW	
	Voltage	200-240V 50/60Hz		200-240V 50/60Hz		200 - 240V 50/60Hz		200 - 240V 50/60Hz	
Air**		200 litres/min (ANR) 0.5 Mpa Air hose - PT 3/8" (for air dryer connections)		110 litres/min (ANR) 0.5 Mpa Air hose - PT 3/8" (for air dryer connections)		110 litres/min (ANR) 0.4-1.0 Mpa Air hose - PT 3/8" (for air dryer connections)		110 litres/min (ANR) 0.5 Mpa Air hose - PT 3/8" (for air dryer connections)	
Net weight***		Approx. 650kg		Approx. 700kg		Approx. 800kg		Approx. 1000kg	
Standard compliance		CE/UL/FDA/USDA/RoHS							

CCW-RV-214W-1S-70-WP-SF		CCW-RV-220W-1D-30-WP-SF		CCW-RV-220WB-1D-30-WP-SF		CCW-RV-220W-1D-50-WP-SF		CCW-RV-220W-1D-70-WP-SF	
55 WPM		80 WPM (40+40)		80 WPM		80 WPM		80 WPM	
14 litres		4.5 litres		4.5 litres		10 litres		14 litres	
up to 4000g	up to 8000g	up to 1000g	up to 2000g	up to 1000g	up to 2000g	up to 4000g	up to 8000g	up to 4000g	up to 8000g
0.5g	1.0g	0.2g	0.5g	0.2g	0.5g	0.5g	1.0g	0.5g	1.0g
12.1" Colour LCD Display									
200									
Double-beam strain gauge load cell									
Product surfaces are made of stainless steel or other sanitary materials									
Various options are available									
IP66 Approval									
0.6kW		0.6kW		1.1kW		1.3kW		1.3kW	
200-240V 50/60Hz		200-240V 50/60Hz		200-240V 50/60Hz		200-240V 50/60Hz		200-240V 50/60Hz	
110 litres/min (ANR) 0.5 Mpa Air hose - PT 3/8" (for air dryer connections)		110 litres/min (ANR) 0.5 Mpa Air hose - PT 3/8" (for air dryer connections)		110 litres/min (ANR) 0.4-1.0 Mpa Air hose - PT 3/8" (for air dryer connections)		210 litres/min (ANR) 0.4-1.0 Mpa Air hose - PT 3/8" (for air dryer connections)		210 litres/min (ANR) 0.4-1.0 Mpa Air hose - PT 3/8" (for air dryer connections)	
Approx. 1000kg		Approx. 1100kg		Approx. 1300kg		Approx. 1800kg		Approx. 1800kg	
CE/UL/FDA/USDA/RoHS									

Design and specifications are subject to change without notice (please confirm dimensions at point of order)
* Depends on product shape, product density, target weight, feeding conditions, etc.
** Compressed air supply is required only for WP machines. Note: Air hose compressor must be provided by user
*** The machine weight varies depending on the options selected.

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

ISHIDA BULGARIA - AGENT

tel: +359 88 888 310
web: www.tact-bg.com
mail: office@tact-bg.com