

DACS-GN Checkweighers

Range Brochure





Checkweigher ▼



Weighing excellence is at the heart of our heritage

Founded in Kyoto, Japan in 1893, Ishida has remained a family-run business to this day.

As the established global leader in weighing, packaging, and inspection systems, you can always put your trust in us. We've been turning challenges into solutions since 1893 and as a family-owned business all that time, we take excellence personally.

Our history underlines our extensive expertise and relentless pursuit of perfection. A continuous succession of new product innovations includes the invention and launch of the world's first multihead weigher in 1972.

Understanding and responding to the needs of our customers is an essential part of the way we work at Ishida. In today's competitive markets, this means helping you achieve superior product quality while maximising throughput and operational efficiency.



The DACS-10, our first checkweigher introduced to the market in 1975, provided the ability to automatically check 100% of pack weights.

Our first dynamic, inline checkweigher was launched in 1975, allowing packed and unpacked products to be weighed without the need for manual intervention. This enables packs to comply with national and regional weights and measures legislation, while evolving to ensure conformity with codes of practice in the private label retail sector.

Due to our comprehensive product development programme and customer-focused approach, we are proud to introduce checkweigher solutions that address the challenges of ever-changing production environments.

Our worldwide installation base of models gives us in-depth knowledge of the widest range of products and market sectors. From different pack formats to larger cartons and crates as well as loose product, we will work with you to provide an application-specific solution. Of course, our commitment extends beyond equipment. We deliver unparalleled after-sales service and support that ensures optimal performance throughout the entire lifecycle of your investment.

The difference that is Ishida

We do things our own way. The right way. That's why every Ishida checkweigher is designed, developed and manufactured to the highest quality standards, whilst conforming to national and regional legislation. Our proprietary loadcell technology, electronics, and software deliver unique performance benefits.

Loadcells have been designed to deliver consistently accurate weight monitoring at high speed. Such exceptional performance is combined with easy set up and changeovers, while tiered access levels provide security of operation.

The robust design of our checkweighers can easily cope with challenging production environments and harsh cleaning regimes, while the open design enables fast cleaning for reduced downtime. For increased reliability, the patented Dislocating Force Limiter (DFL) avoids accidental damage by simply disconnecting the loadcell if an unexpected excessive load or impact is applied. Helping to protect the checkweigher and allowing normal operation to resume without service intervention.

Flexibility is essential. That's why in addition to being configured as a standalone system, our checkweighers can be part of a fully integrated line solution.

All things considered, it's no surprise that our reputation for quality and reliability is unsurpassed in the packaging industry. The durable design of our checkweighers delivers years of reliable operation, demonstrated by many of our older models still in production around the world.

The DACS-GN Range New generation

Four models. More solutions

The Ishida DACS-GN platform comprises four key model variants – the Performance, Excellence, Advance, and Carton lines each offering a variety of capabilities. Enabling us to shape a solution around your precise requirements.

Delivering a range of features, the DACS-GN is the perfect partner for today's modern factories and advanced packing lines. Enjoy everything from ease of operation to an enhanced design that allows fast and simple access for service and maintenance, including a Plug and Play platform for quick installation.

The choice of models, which includes hygienic IP65-rated waterproof versions for fresh, frozen and dusty applications, meets different line speed requirements – up to 500 packs per minute – while weighing capabilities vary from 5g up to 6kg for primary packs and up to 60kg for boxes.

DACS-GN checkweighers can be further tailored to individual applications with a wide choice of options including specialist reject systems, software options, and hygienic design.



Performance-Line

Performance with value

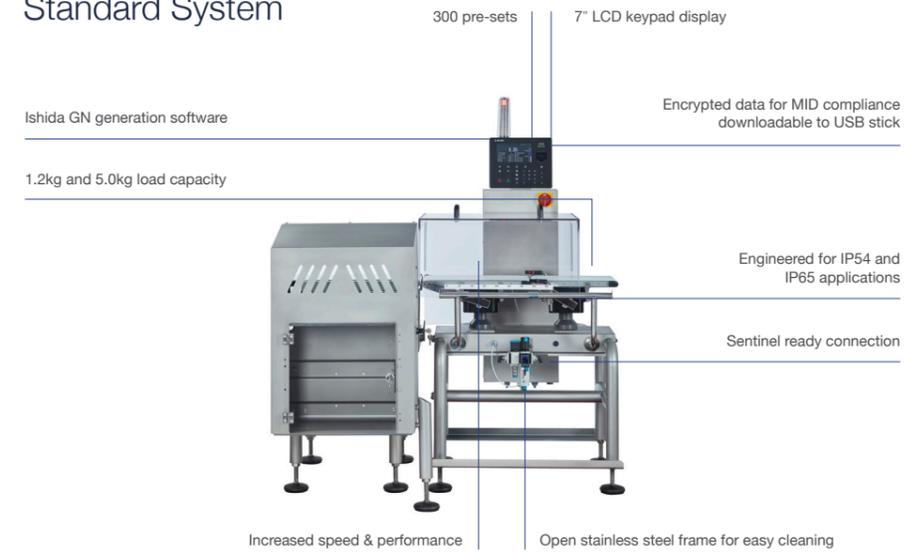
The Performance-Line checkweigher is suitable for a wide variety of product types and applications.

- ▶ Engineered to deliver weighing performance without compromise. This checkweigher platform is built to the highest standards for long-term consistent and reliable operation.
- ▶ Suitable for both wet and dry environments with IP54/ IP65 certification as standard, providing weighing ranges up to 1.2kg and 5.0kg with a choice of reject systems.
- ▶ All models comply with the latest supermarket requirements and can be specified with an integrated metal detector.
- ▶ Top speeds of up to 180 packs per minute are achievable, depending on the application and product type.

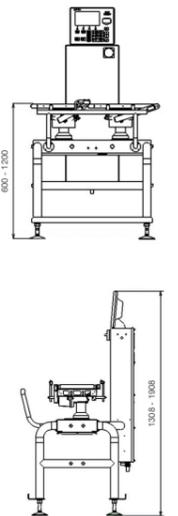


- ▶ Front USB with approved encryption for the storage of production data
- ▶ 300 programmable pre-sets
- ▶ 7" LCD user keypad
- ▶ Integrated Metal Detector option
- ▶ Automatic reject options
- ▶ IP54/IP65 (waterproof version)
- ▶ MID compliance

Standard System



Typical System



Specifications

Performance-Line	DACS-GN-SE012	DACS-GN-SE050
Working Line Height	700mm - 1100mm (±100mm)	
Conveyor Belt Width	220mm, 300mm	370mm
Infeed Belt Length	350mm, 400mm	400mm
Reject Belt Length	550mm, 745mm	845mm
Weigh Belt Length	450mm, 545mm	545mm
Weighing Capacity	1250g	5000g
Weighing Range Output	Standard	
Weight Range	8g to 1250g	32g to 5000g
Verification Scale Interval (e)	0.5g	2g
Actual Scale Interval (d)	0.05g	0.2g
Max. Belt Speed	8g to 35g: 50m/min	32g to 140g: 50m/min
	35g to 1250g: 90m/min	140g to 5000g: 90m/min
WELMEC/OIML approvals	R51/2005-A-NL-1-23.03 (MID)	
Ingress Protection Classification	IP54 - SS / IP65 - WP (Independently Certified)	
Operating Temperature	-5°C to 40°C	
Power Supply	220V to 240V, 50/60Hz, 1 Phase	
Warranty Period	1 year Standard	
Options		
Metal Detector CEIA THS/SL21ET-3F	✓	✓
Metal Detector CEIA THS/SLMS21	✓	✓
Retail reject confirmation (RRC/RCOP)	✓	✓
Standard (STD) Air Reject Device	✓	✓
Heavy Duty (HD) Air Reject Device	✓	✓
Arm Reject Device	✓	✓
Printer	✓	✓
IDCS Software and Hardware	✓	✓

Excellence-Line

Engineered for versatility and precision

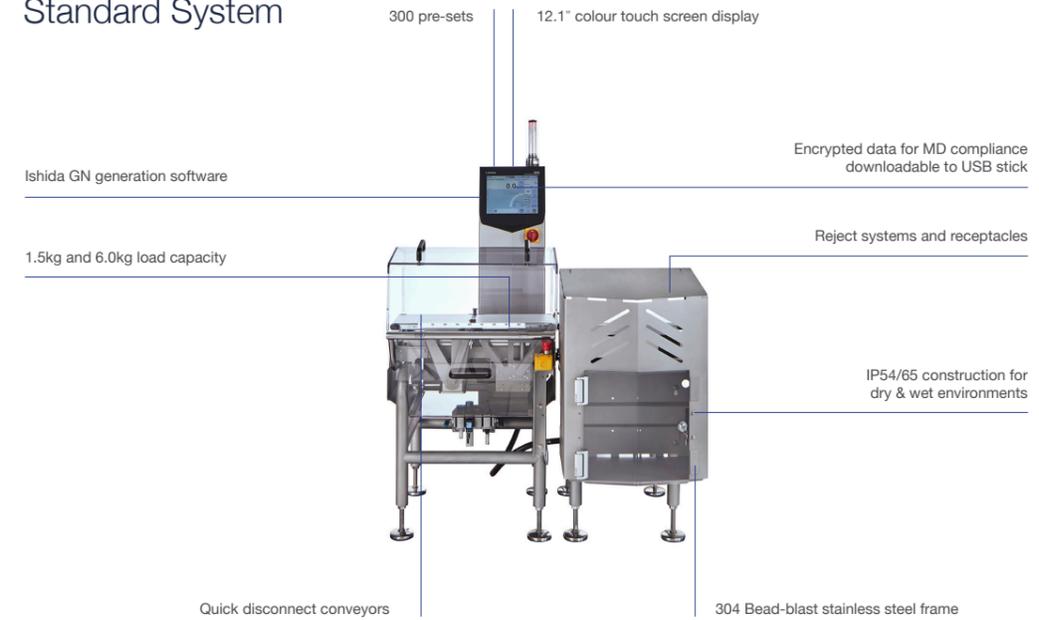
The Excellence-Line checkweigher platform is engineered to deliver weighing flexibility for a variety of products, production environments and line configurations.

- ▶ High performance robust machines with the flexibility to handle a wide product and weight range, plus many different pack formats.
- ▶ Available with an integrated metal detector, these checkweighers comply with the latest supermarket code of practices for private label manufacture.
- ▶ Two models in both Wet IP65/Dry IP54 with certification as standard, delivering weighing ranges up to 1.5kg and 6kg and a choice of reject options.
- ▶ Standard features include an advanced and intuitive Colour Touch Screen for fast set up

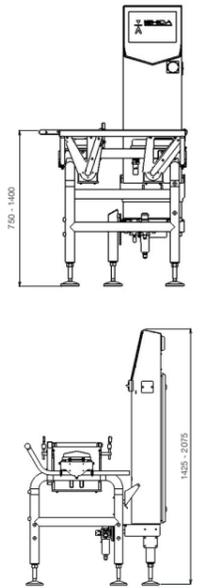


- ▶ Front USB with approved encryption for the storage of production data
- ▶ 300 programmable pre-sets
- ▶ 12.1" colour touch display
- ▶ Integrated Metal Detector option
- ▶ Automatic reject options
- ▶ IP54/IP65 (waterproof version)
- ▶ MID compliance

Standard System



Typical System



Specifications

Excellence-Line	DACS-GN-S015		DACS-GN-S060	
	Working Line Height	700mm - 1100mm Standard Line height: 850mm ±50mm)		
Conveyor Belt Width	160mm, 240mm, 320mm		240mm, 320mm, 400mm	
Infeed Belt Length	350mm, 450mm, 550mm		350mm, 450mm, 550mm	
Reject Belt Length	550mm, 750mm		550mm, 750mm, 850mm	
Weigh Belt Length	250mm, 350mm, 450mm, 550mm		350mm, 450mm, 550mm, 650mm	
Weight Capacity	1500g		6000g	
Weighing Range Output	Precision	Standard	Precision	Standard
Weight Range	8g to 600g	35g to 1500g	30g to 3000g	140g to 6000g
Verification Scale Interval (e)	0.2g	0.5g	1g	2g
Actual Scale Interval (d)	0.02g	0.05g	0.1g	0.2g
Max. Belt Speed	8.0g to 9.8g: 20m/min	-	30g to 49g: 60m/min	140g to 998g: 90m/min
	30.0g to 600.0g: 100m/min	250.0g to 1500.0g: 120m/min	200g to 3000g: 100m/min	4002g to 6000g: 120m/min
	10.0g to 29.8g: 60m/min	35.0g to 249.5g: 115m/min	50g to 199g: 70m/min	1000g to 4000g: 115m/min
WELMEC/OIML approvals	R51/2005-A-NL-1-23.03 (MID)			
Ingress Protection Classification	IP54 - SS / IP65 - WP (Independently Certified)			
Operating Temperature	0°C to 40°C			
Power Supply	200V to 240V, 50/60 Hz, 1 Phase			
Warranty Period	2 year Standard			
Options				
Metal Detector - CEIA THS/SL21ET-3F	✓			✓
Metal Detector - CEIA THS/SLMS21	✓			✓
Metal Detector - CEIA THS/MS21	✓			✓
Retail Reject Confirmation (RRC/RCOP)	✓			✓
Standard (STD) Air Reject Option	✓			✓
Heavy Duty (HD) Air Reject Option	✓			✓
Arm Reject Optionr	✓			✓
Pneumatic Pusher Reject Device	✓			✓
Printer	✓			✓
IDCS Software and Hardware	✓			✓

Advance-Line

Delivering accuracy with speed

Combining both high accuracy weighing with fast product throughput, Advance-Line checkweighers provide the ideal solution to respond to modern production environments.

Through precision engineering, this platform is ideal for product inspections that may be complicated to regulate and manage due to small weight variance or speed.

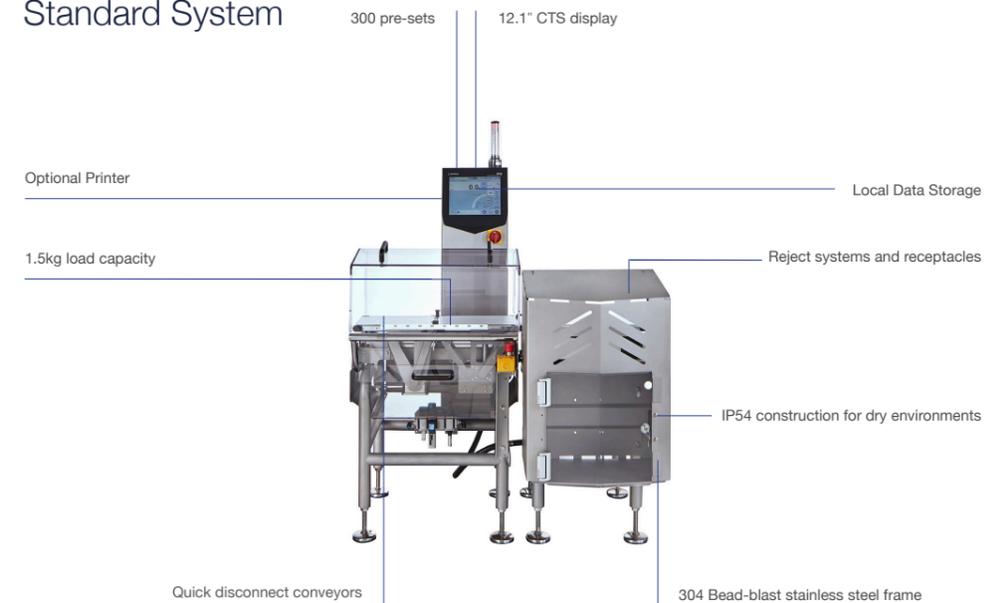
Suitable for line speeds of up to 480ppm where full inspection is required.

- ▶ Using electromagnetic force restoration (EMFR) loadcells, the Ishida Advance-Line delivers precision and accuracy combined with high-speed weighing.
- ▶ Advance-Line checkweighers are capable of handling weights up to 1.5kg, with a choice of reject systems to work in combination.
- ▶ Ease of operation is assured using an intuitive Colour Touch Screen that facilitates effortless operation whilst localised encrypted USB data collection eliminates the need for a printer.
- ▶ The Advance-Line is available with an integrated metal detector and optional enhancement specification to meet all the latest supermarket standards for private label manufacture.

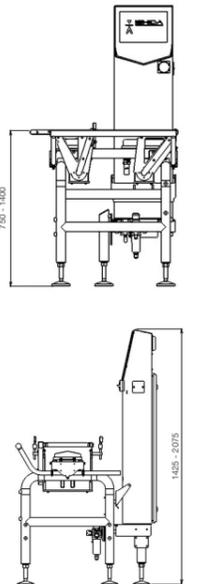


- ▶ Solid, sturdy stainless steel frame construction
- ▶ Toolless removal of conveyor beds for servicing and cleaning
- ▶ MID Compliance
- ▶ Encrypted USB for the storage of production data
- ▶ Supermarket compliance specification
- ▶ Flexible machine design configuration to suit applications and line layouts

Standard System



Typical System



Specifications

Advance-Line	DACS-GN-F015		
Working Height	700mm - 1100mm Standard Line height: 850mm ±50mm)		
Conveyor Belt Width	160mm, 240mm, 320mm		
Infeed Belt Length	350mm, 450mm, 550mm		
Reject Belt Length	550mm, 750mm		
Weigh Belt Length	250mm, 350mm, 450mm, 550mm		
Weight Capacity	1500g		
Weighing Range Output	Precision	Standard	High Speed
Weight Range	5g to 300g	15g to 600g	20g to 1500g
Verification Scale Interval (e)	0.1g	0.2g	0.5g
Actual Scale Interval (d)	0.01g	0.02g	0.05g
Maximum Belt Speed	5.0g to 7.9g: 60m/min	15.0g to 34.8g: 80m/min	20.0g to 34.5g: 80m/min
	8.0g to 49.9g: 80m/min	35.0g to 399.8g: 100m/min	35.0g to 1500.0g: 120m/min
	50.0g to 99.9g: 100m/min	400.0g to 600.0g: 120m/min	-
	100.0g to 300.0g: 120m/min	-	-
WELMEC/OIML approvals	R51/2005-A-NL-1-23.03 (MID)		
Ingress Protection Classification	IP54 - SS (Independently Certified)		
Operating Temperature	0°C to 40°C		
Power Supply	200V to 240V, 50/60 Hz, 1 Phase		
Warranty Period	2 year Standard		
Options			
Metal Detector - CEIA THS/SL21ET-3F	✓		
Metal Detector - CEIA THS/SLMS21	✓		
Metal Detector - CEIA THS/MS21	✓		
Retail Reject Confirmation (RRC/RCOP)	✓		
Standard (STD) Air Reject Option	✓		
Heavy Duty (HD) Air Reject Option	✓		
Arm Reject Device	✓		
Pneumatic Pusher Reject Device	✓		
Printer	✓		
IDCS Software and Hardware	✓		

Carton-Line

Handling mass and volume

The heavy-duty line of checkweighers for the weighing of bags and boxes as part of a line flow solution.

Supplied with three weight handling capacities, the Carton-Line is engineered for continuous product inspection weighing of products up to 60kg in weight. Incorporating Ishida designed weigh cell modules to deliver accuracy and long life, the machine has been engineered to IP65. This ensures suitability for the most challenging dry, dusty and wet environments.

- ▶ Our Carton-Line will take the strain out of your carton and crate weighing requirements.
- ▶ It is capable of handling weights up to 60kg at speeds of up to 80 products per minute, detecting small weight discrepancies or missing items.
- ▶ Available in IP54 and IP65 versions, the free-standing RCU display unit makes integration into the line quick and easy. Optional line infeed and extension conveyors can be configured to suit your specific requirements.

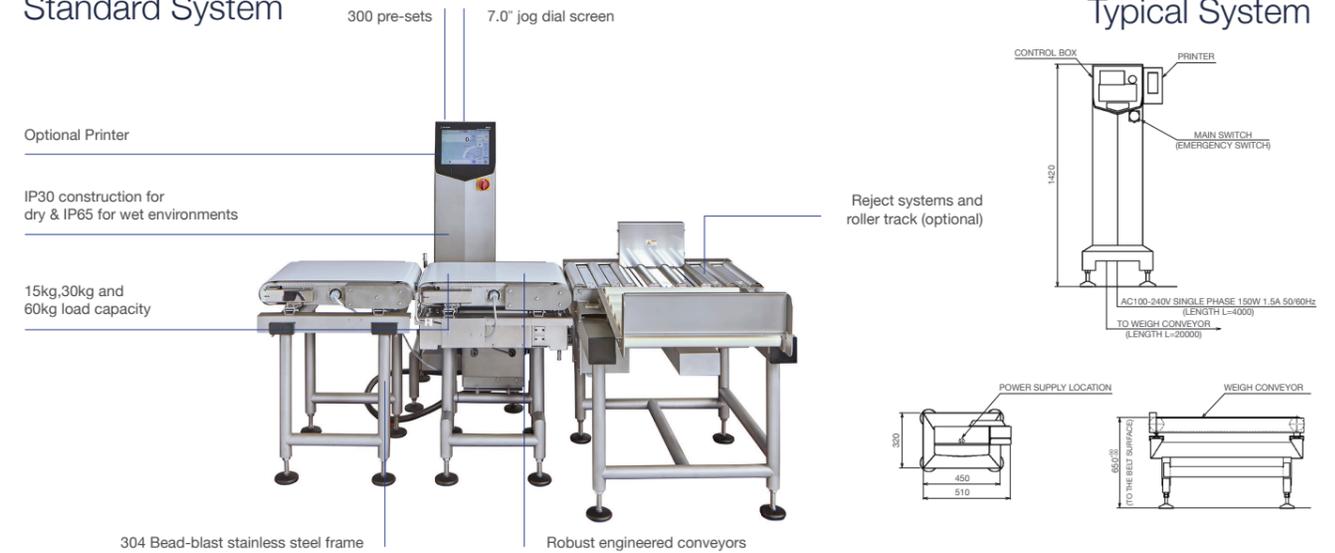


DACS-GN Checkweighers Range Brochure



- ▶ The Ishida weigh modules are designed and manufactured to provide high accuracy and speed
- ▶ Solid, sturdy stainless steel frame construction
- ▶ Remote main body display for convenient access
- ▶ Simplified removal of conveyor belts for servicing and cleaning
- ▶ Assistance lifting tool included for single operator service
- ▶ Encrypted USB for the storage of production data
- ▶ 7.0" jog dial screen for product set up and reviewing statistical data
- ▶ Optional infeed conveyor for presentation and product pitch regulation
- ▶ Optional pneumatic reject pusher for the removal of non compliance product
- ▶ Flexible machine design configuration to suit applications and line layouts

Standard System



Typical System

Carton-Line		DACS-GN-S150	DACS-GN-S300	DACS-GN-S600
Weight Capacity		Up to 15,000g	Up to 15,000g Up to 30,000g	Up to 15,000g Up to 30,000g Up to 60,000g
Upper Limit of Indication		Up to 15,000g	Up to 15,000g Up to 30,000g	Up to 30,000g Up to 30,000g Up to 60,000g
Lower Limit of Indication		150g	150g 300g	150g 300g 600g
Actual Scale Interval		1g	1g 2g	1g 2g 5g
Max. Belt Speed		10 - 55m/min	10 - 40m/min	5 - 20m/min
Protection		IP30 / IP65	IP30 / IP65	IP30 / IP65
Operating Temperature		0 - 40C	0 - 40 C	0 - 40 C
Weight Conveyor Size		400mm (W) x 650mm (L)	400mm (W) x 650mm (L)	400mm (W) x 650mm (L)
			450mm (W) x 800mm (L)	450mm (W) x 800mm (L)
			550mm (W) x 1100mm (L)	550mm (W) x 1100mm (L)
Infeed Conveyor	Belt	400mm (W) x 650mm (L)	✓	✓
		450mm (W) x 800mm (L)	✓	✓
		550mm (W) x 1100mm (L)	✓	✓
Roller	400mm (W) x 650mm (L)	✓	✓	✓
	450mm (W) x 800mm (L)	✓	✓	✓
	550mm (W) x 1100mm (L)	✓	✓	✓
RCU Type	Standard		✓	✓
Main Body Type	Remote Main Body	✓	✓	✓
Reject Device	Pusher - Roller	450mm (W) x 800mm (L)	✓	✓
		500mm (W) x 800mm (L)	✓	✓
		600mm (W) x 1100mm (L)	✓	✓
Reject Bin	Roller Track	✓	✓	✓
Standard Interface	USB (for memory stick only)	✓	✓	✓
Software and Other Options	Integrated Printer	✓	✓	✓
	Beacon (red/green/amber)	✓	✓	✓
Language	Multiple language options available	✓	✓	✓
Power	Consumption	225W	225W	225W
	Voltage	220-240V 50-60Hz	220-240V 50-60Hz	220-240V 50-60Hz
Warranty Period		1 year	1 year	1 year

Greater versatility. Wider capability.

Thanks to our extensive worldwide installed base of Ishida checkweighers, we have the knowledge and experience of many different end markets.

In the food sector alone, this includes snacks, meat, poultry, bakery, confectionery, ready meals, dry and frozen foods, pasta and fresh produce. Additionally our checkweighers are equally suitable for a variety of non-food items such as hardware and nutritional products.

Whatever the application, an Ishida checkweigher has the flexibility to deal with a myriad of weighing requirements and pack formats. Whether it is single packs, such as bags, trays or boxes, or multi-packs, unpacked or bulk products - our machines are equipped to handle them all.

Just as the selection of the right model is critical to achieving the highest levels of accuracy and throughput, so too is the correct positioning of the checkweigher in the line to ensure it can deliver the most effective performance.

Our team of experts is on hand to help you choose the best machine and the perfect placement.

Fully compliant with your quality processes

The Ishida Europe DACS-GN range complies with all relevant European weights and measures legislations and directives, including WELMEC, OIML, and MID.

We keep fully-up-to-date with individual country or retailer requirements and can work with you to ensure our machines adhere to the very latest regulations and codes of practice.

Our checkweighers are also able to take on wider quality control functions. Using our latest range of X-Ray solutions, we are proud to offer checkweigher X-Ray combinations that combine high speed and precision weighing with versatile checks for contaminated, broken, deformed, or missing products.

Whatever your quality control requirements, we will work with you to devise a solution with the required levels of sensitivity to match your specific product or application.



Snack Foods



Meat and poultry



Bakery



Confectionery



Ready Meals



Dry food and pasta

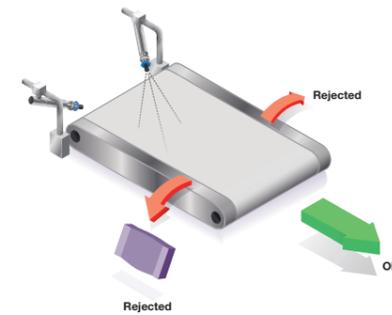


Frozen foods

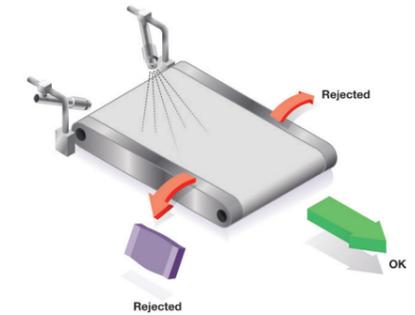


Fresh produce

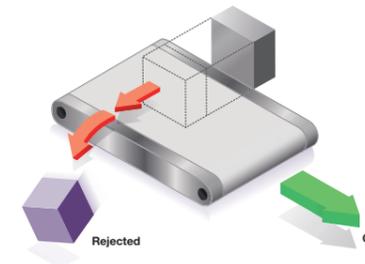
Reject Solutions Range Brochure



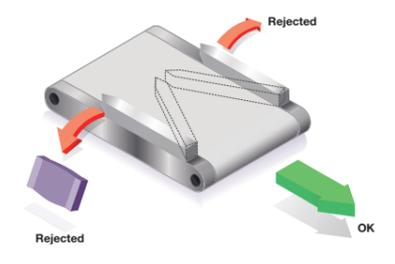
Air reject: suitable for small lightweight packaged products



HD Air reject: suitable for medium weight packaged products



Pusher reject: ideal for heavier items



Arm reject: ideal for boxes and bags

Tailored flexibility

The rugged and durable construction of an Ishida checkweigher will provide years of reliable service – and our advanced software will ensure that throughout this time, the machine continues to perform at the highest level.

Ishida-designed software is ideal for most applications, providing the right degree of monitoring performance and fully integrating the checkweigher with other equipment on the line. To maintain strict retailer standards, our RRC (Retail Reject Confirmation) software and hardware will check and confirm that any out-of-spec product or pack has been successfully removed from the production and packing line.

For specialist applications where a more bespoke solution is required, we will work with you to create machines that meet your precise specifications.

Equally important, our software provides complete future proofing with the ability to be enhanced, revised and updated in line with changing market needs and regulations.

To support the move to paperless compliance, our advanced Data Capture System is an invaluable software tool that can store and provide data from every pack. Furthermore, this detailed information can generate real-time displays and reports to help monitor performance and identify areas for improvement.

Unparalleled service

Our reputation for service and support has been without equal, throughout our history.

You can be assured that our team of engineers have years of experience of both current and previous model ranges. Combined with our comprehensive warranty, rapid response and extensive spares stock holding, we ensure that in the event of any problem, we will get you up and running fast.

Our after-sales service is here for you. Including full installation support with machine calibration carried out prior to delivery and again on-site. Together with regular performance validations to ensure all legislative and retailer requirements are being constantly met.

Sentinel 5.0

Our new Sentinel 5.0 is an advanced Production Monitoring System that uses data to help you streamline operations, reduce costs, and maximise production efficiency. It combines the best features from our IDCS solution for checkweighers in storing and collecting performance data with the remote support capabilities from the existing Sentinel system – and much more.

Choose the Local version to store data at your site or Cloud to store it on our own integrated Cloud servers.

For every challenge, there's Ishida

Want to cut food and packaging waste, and reduce costs? Find minute foreign objects and big performance gains? Discover smarter ways to significantly reduce product giveaway?

We've been turning questions into answers for over 130 years, which means we have all the product solutions, sector expertise and proven know-how you need

Why Trust Ishida?

The most important question and the one we answer every day. Providing more compelling reasons for you to put your trust in us.

- ▶ Full range of weighing, X-Ray inspection, checkweighing, tray sealing, packing and leak detection equipment, plus supporting software
- ▶ Fast and efficient installation, aligned to your specifications
- ▶ Built to the highest industry standards and powered by the latest technology, including advanced AI
- ▶ Specialists in both food and non-food applications
- ▶ Complete flexibility from a single machine to a fully integrated line solution
- ▶ Solutions fully tailored to your sector and your products
- ▶ Dedicated parts and servicing support, with 24 hour delivery in most cases
- ▶ Expert training online or at your site
- ▶ Dedicated engineers on call 24/7/365



Helpline

Spares

Service

Training

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