

Innovation  
Commitment Knowledge  
Experience Quality  
Precision Performance



### 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 Europe: understanding and tackling the weighing and packing line challenges you face

- Unique engineering expertise, combined with practical industry knowledge in your sector
- Global applications experience, including snacks, meat, poultry, ready meals, fresh produce, dry and frozen foods, bakery, confectionery and pasta
- R&D resources and commitment to support both continuous improvement and major innovation
- Solutions include consultancy and project management, complete packing lines, multihead weighers, distribution and topping systems, X-ray inspection systems, snackfood bagmakers, checkweighers, traysealers, weigh-price-labellers and pick-and-place systems.



# IPS

**Individual pick-and-place system for faster, more flexible case and crate packing**



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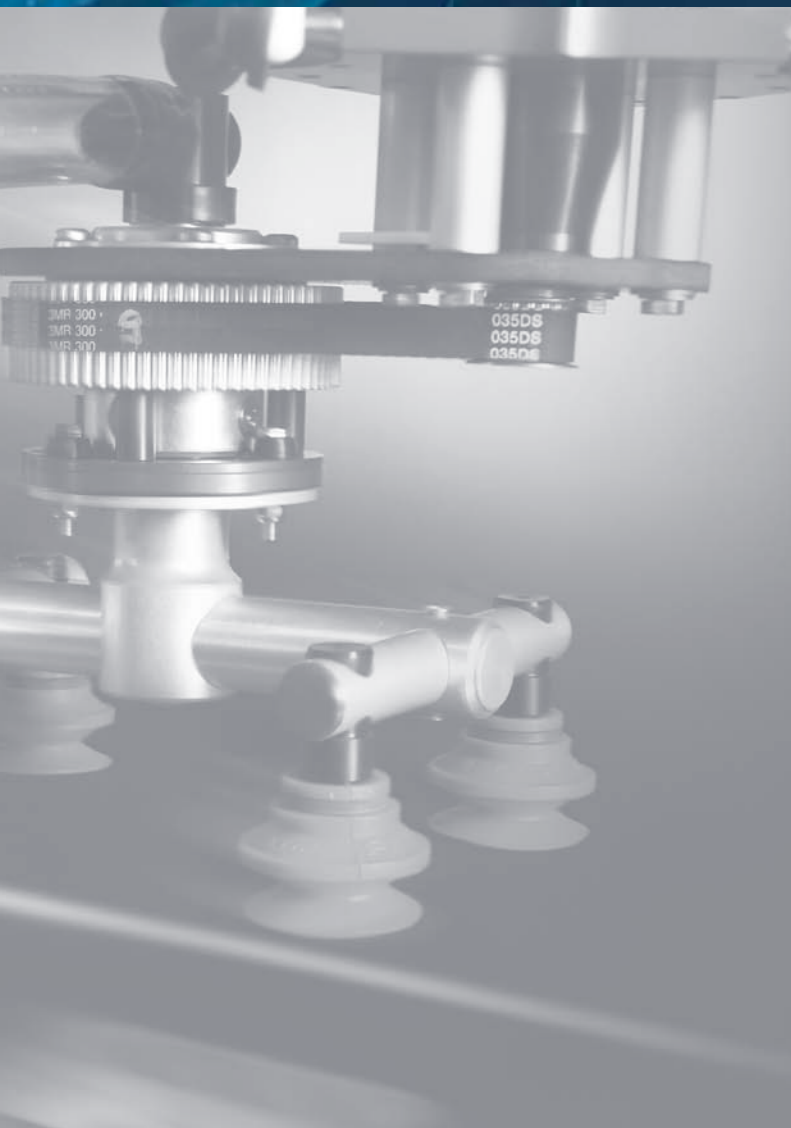
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# A new era in pick-and-place packing



## IPS: the benefits in depth



### Ishida IPS

The new Ishida Packing System (IPS) makes packing of trays into cases and Eurocrates faster and more efficient, and enables you to vary your in-crate presentation to suit a wider range of demands than ever before. In addition, it requires less upstream expenditure, as it accommodates far simpler tray infeed arrangements. It is also extremely simple to set up and control.

It works by moving individual trays rather than collations. This approach has become advantageous because of advances in the speed, efficiency and robustness of modern robots, combined with Ishida's extensive applications knowhow and pick-and-place experience.

The IPS is available in single, twin and dual lane configurations.

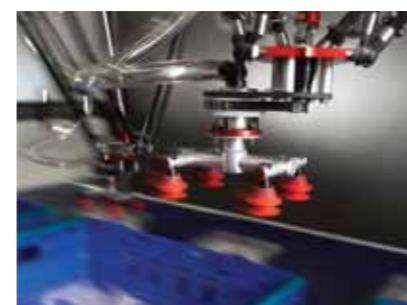
Main benefits (covered in more detail at right):

- High speed and efficiency (150 trays/minute)
- Simplified infeeding and crate handling
- Enhanced flexibility in crate layout and contents
- Uncomplicated set up, operation and changeovers
- Simple, robust, hygienic design



#### Applications include:

- Ready Meals
- Meat
- Poultry
- Fish & Seafood
- Fresh Produce
- Salads
- Dairy
- Fruit
- Confectionery



#### High speed and efficiency (150 trays/minute)

IPS will bring high speeds (up to 150 trays per minute with the 2-robot configuration) to your end-of-line activities. With all the actuators located in the overhead compartment and with light but strong arms, the IPS's delta robot's moving parts have a very small inertia, which allows them to accelerate rapidly. The resulting speed and efficiency mean that picking of individual packs now leaves old-fashioned collation picking far behind.



#### ...And in the tray count per crate

With the IPS, there is the ability to include 'incomplete' layers of, say, one or two packs, whether as part of a preset programme or as a one-off decision.

This can be of great help when, for example, packing to a given crate weight, or when including extra packs for some type of bonus offer.



#### Simplified infeeding and crate handling

Trays are streamed into the machine in a single, twin or dual lane configuration. No expensive, complicated vision system is needed, and any steps to collate packs before picking can be dispensed with.

The IPS tracks all the items optically. Trays are picked, and crates filled, whilst in motion, greatly increasing the efficiency of the system. This also avoids any need for adjustable stops and their time-consuming adjustment.



#### Uncomplicated set up, operation and changeovers

Operation of the IPS is extremely simple to learn and can be carried out from its own RCU or remotely.

Changeovers are quick and easy owing to the large number of preset programmes that can be stored. Picking heads are attached with a bayonet fixing, making exchange of heads fast and simple. Changing from one tray size to another takes less than one minute.



#### Enhanced flexibility in crate layout...

A major benefit of individual pick-and-place packing is that each layer of trays in a crate or case can be arranged differently. For example, one can pack a crate with alternating layers of the two configurations shown here. For a multi-layer case it is clear that this would provide much greater stability of the contents during transport than would identical layers laid on top of each other.

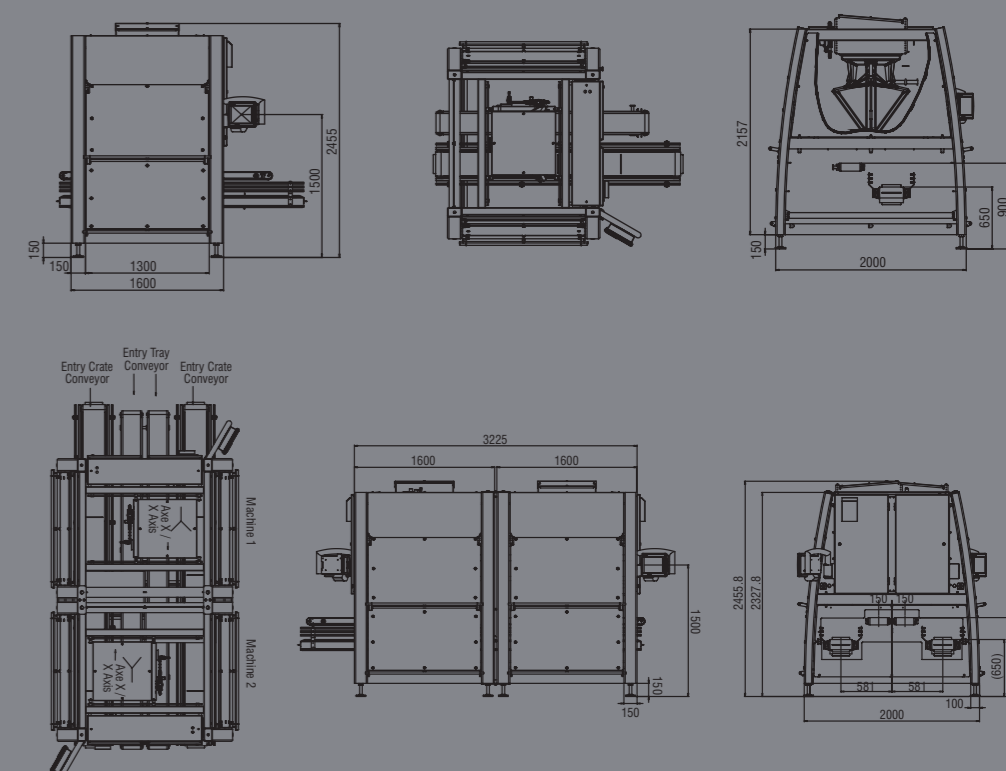


#### Simple, robust, hygienic design

With its strong but light 'parallelogram' structure, the delta robot has a four-axis movement (X-, Y- and Z-dimensions plus rotation). The simple rack and pinion drive is free of the wear problems associated with complex gearboxes. Fast, sensitive crash detection is built in, ensuring that the robots cannot damage themselves or the products.

The entire structure is very low-maintenance, with all belts easily removed by hand for maintenance. It is constructed to IP65 standard up to 1.2 metres from floor level, allowing for thorough washdown.

#### Technical specification



The machine is produced in two forms: Single-robot or twin-robot

	Single-robot	Twin-robot twin frame	Dual configuration twin frame
Max. tray-picking rate	Up to 75 p/min @ 0.3 kg	Up to 150 p/min @ 0.3kg; 80 p/min	Up to 150 p/min @ 0.3kg; 80 p/min
Max. crate feeding rate	Up to 17 c/min	Up to 17 c/min	Up to 17 c/min per side
Height	2650	2650	2650
Width	2000	2000	2000
Length	2600	4410	4410
Machine design	IP 65 up to 1.2 m and above; splash-proof		
Power supply	3Phase - 400V - 16A		
Interface	415 volts 3ph. P.nue 12mm @ 6bar		

Note the maximum machine speeds are determined by size and weight of the products and crates. Please contact the Ishida design staff for confirmation. Note the dual machine as two crate and tray conveyors.