

Flex Grader

The smart solution for batching
and grading





Grading and Batching

Flex Grader

One smart, easy solution for a wide range of batching and grading solutions.

Flexible for today and tomorrow

The Ishida Flex Grader system is compact, fast and accurate. There is huge flexibility in terms of working practice, particularly in the wide choice of bin and outfeed arrangements. The high degree of modularity means that the systems can be rapidly reconfigured, added to or downsized to meet work requirements of the moment.

The Ishida FlexGrader provides many real advances that make grading and batching tasks simpler, safer and more accurate. The modular construction of the Flex Separator means that you can increase the

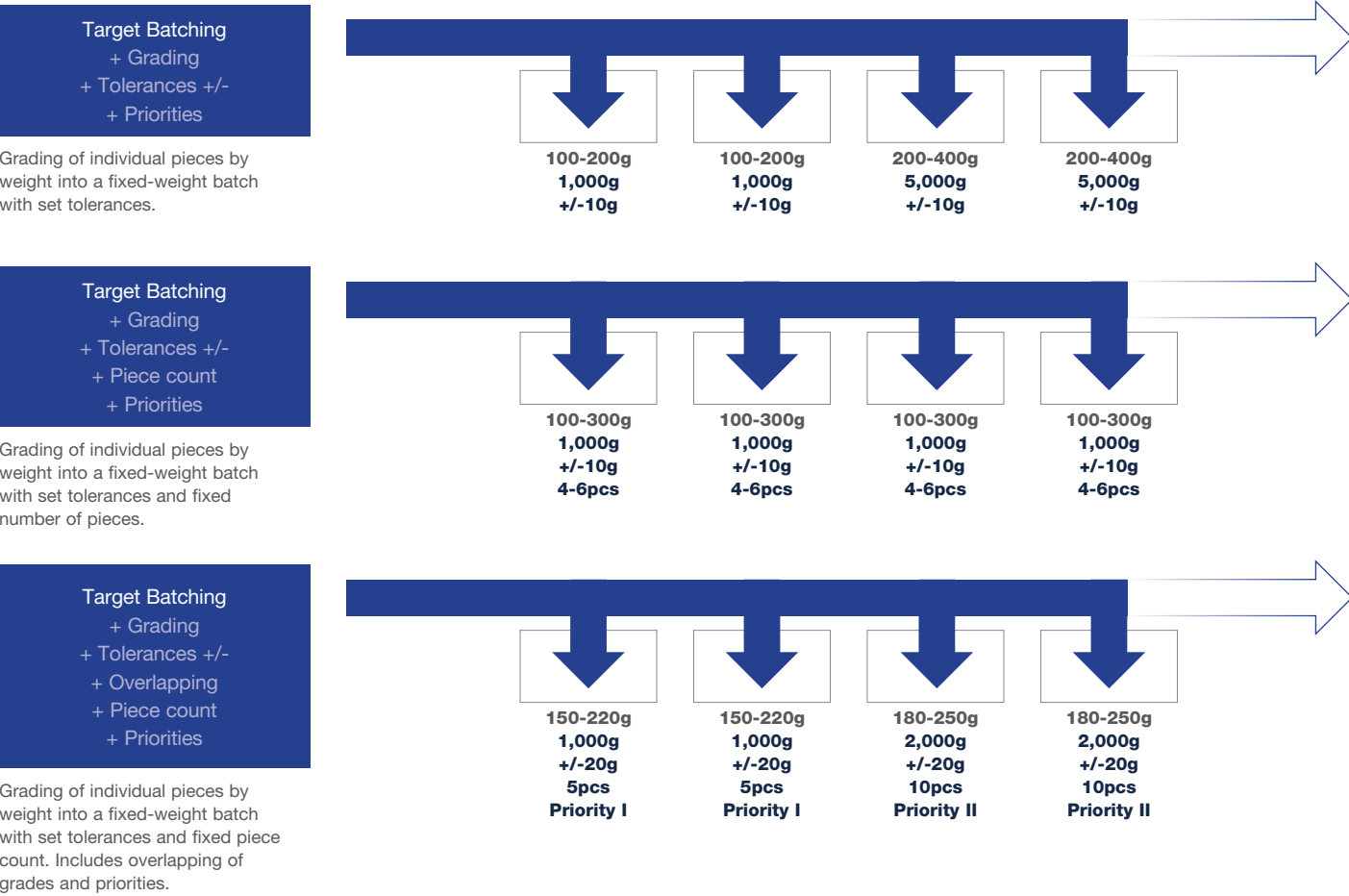
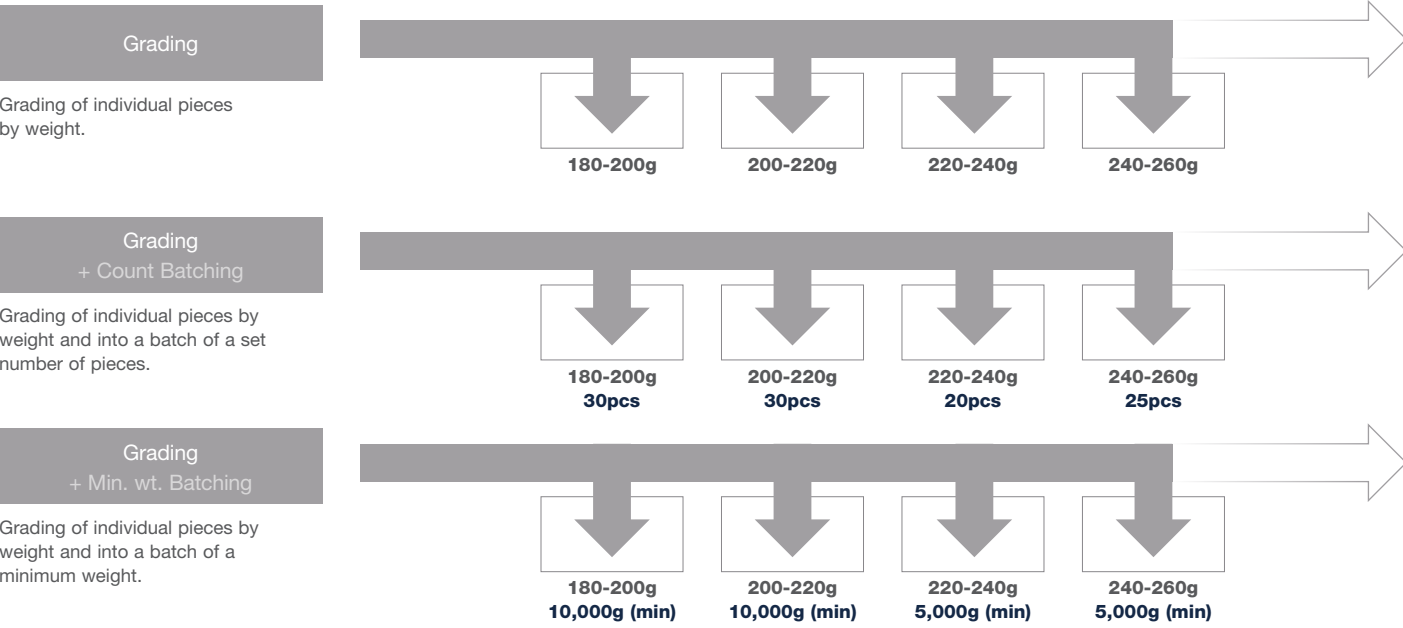
number of work stations, depending on market requirements. A single sided set up can be converted to double sided, or a slap arm diversion system into a catch arm one with no major effort. If a divert arm suffers impact damage, for example, it can be swapped out with a spare unit without halting production. In a world of rapidly changing demands and challenges, as Ishida Flex Grader brings a strong element of predictability.

The Flex Grader incorporates Ishida’s AI (Artificial Intelligence) technology. This is the very latest in batching software, from the company that invented combination weighing.

While other systems are forced to make rapid decisions at the point of separating a piece from the inflow, AI has already made an accurate prediction of pieces in advance. This leaves plenty of “brainpower” for those last microsecond decisions that transform an adequate selection into a near perfect selection, keeping giveaway to a minimum.



Simple to sophisticated: what the Flex Grader can do for you



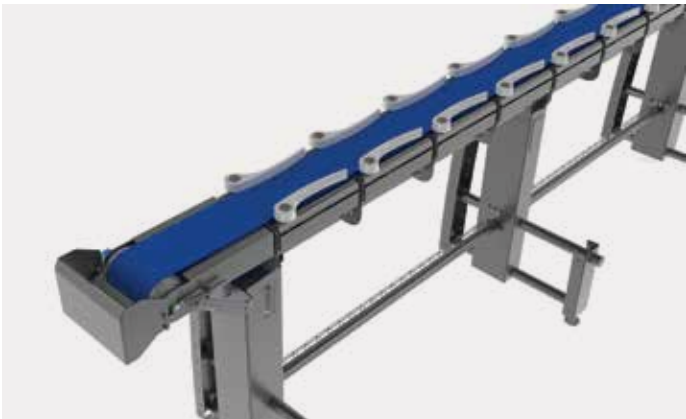
Flex means flexibility

Three notable features of the Flex Grader are the ease of dismantling, the ultra open structure and the minimisation of the floor contact points, all powerful aids to maintaining a high level of hygiene.



Flex Infeed Systems

The infeed system is crucial to grader performance. It must deliver to constant “pitch” (distance between pieces) which is essential for accurate dynamic weighing. Ishida offers integrated infeed’s to match your overall line speed targets, from manual systems to automatic infeed’s guaranteeing up to 200ppm depending on piece dimensions and ambient conditions. All Ishida Flex style infeed systems, whatever their degree of sophistication, offer a high level of hygiene and easy cleaning.



Flex Separator

The Ishida Flex Separator collects each piece in accordance with the decision made at the weighing stage by the Ishida Artificial Intelligence, assembling portions at stations along its length. Its modular construction makes it adaptable to all possible configurations; work stations to either side or both sides, diversion by catch arm or slap arm. To expand the separator, extra modules are easily fitted onto the frame. This modularity works to make it “future proof” in the ever-changing world of packing requirements.



Flex Bins

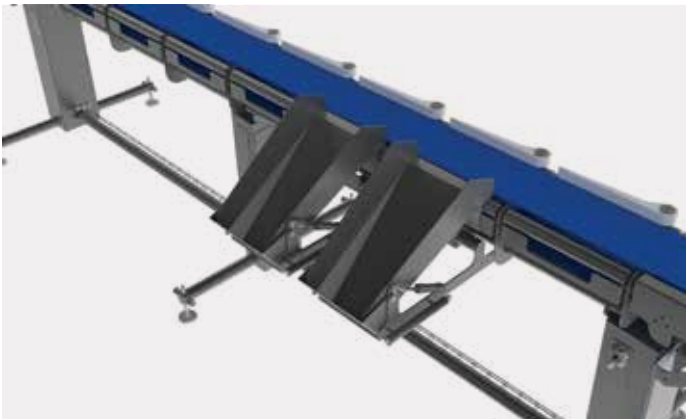
The Ishida Flex Bins gently and efficiently collect the selected pieces to form portions. A wide variety is available, from gently sloping chutes to gated bins which greatly increase the capacity of the line. Special bag holders can be mounted on the chutes, enabling direct filling into bags. The system can light up a push button when a portion has been achieved, prompting the operator to empty into a tray or box at the outfeed level. The bins sit firmly onto the separator frame and can easily be lifted off or tipped in situ for cleaning.



Flex Weigher

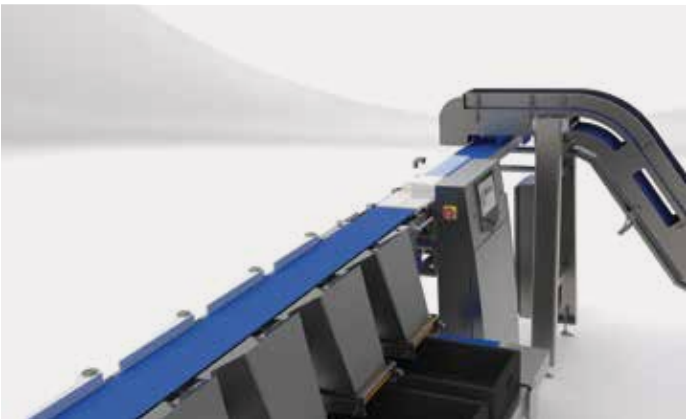
The weigher is an ultra-robust system for dynamic check weighing in wet food processing production environments. Featuring a robust and reliable design that can withstand use in even the harshest environments. The system weighs and controls all products using sharp precision at high speeds.

As alternatives to dynamic weighing, Ishida can also offer solutions making use of a weigh-price-labeller or weight estimation by X-Ray. All the units concerned can participate in grading and batching via the Ishida Artificial Intelligence.



Flex Outfeed Systems

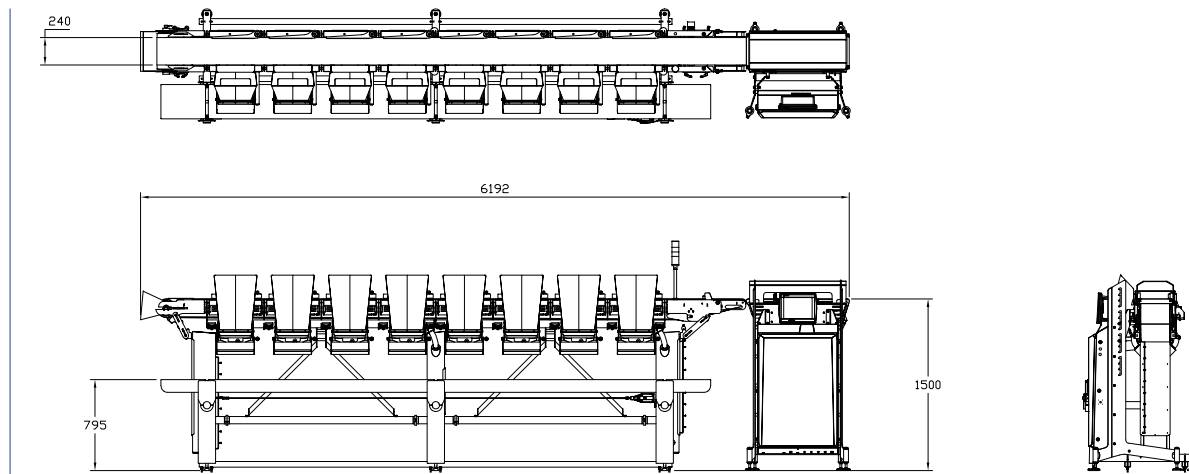
The Ishida Flex Outfeed System removes the finished portions for packing. Options range from packing tables to conveyors that synchronise with the Flex bin product release. All options benefit from being mounted on the unique flex frame, which eliminates contamination traps and minimises contact points with the floor, making cleaning simpler and more effective.



Multiple Configurations

The Ishida Flex Grader is the most truly modular solution available, enabling you to add capacity as needed without having to change systems. Many multiple configurations are available due to the modular construction, making it adaptable to all possible packing world requirements.

Technical specification



Specification	FlexGrader
Weighing Machine	SP520-900-Ishida
Weigh Belt Width	275mm
Operating Format	Sizing, Batch to count, Batch to minimum weight, Target batching with tolerances and priorities
Weight Range	6g to 600g / 15g to 1500g
Maximum Stations	Up to 24 arms
Belt Width (W)	250mm
Arm Length (L)	500mm
Line Height (H)	1200 - 1800mm



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