

# Farmed Fish Packing

Grading and batching into fixed-weight packs



- Increased automation
- Reduced giveaway
- High throughput
- Real-time control and monitoring

# Task-specific solutions at the right price

## Fast and efficient grading and batching

This solution is ideal for receiving small, whole fish such as seabass and seabream for single-operation grading and packing into fixed-weight packs. Combined with the Innova grading module, full feedback reporting of the packing and grading process is available in real time.

### Features and advantages

- Precise size & weight grading ensures higher value product
- Reduced labor costs as grading and packing are one operation
- Optional label printing with barcode and real-time data
- With Innova, yield results are only a mouse-click away

#### 1. Weighing unit

High precision dynamic weighing unit for weighing a continuous stream of individually separated pieces of various products.

#### 2. Label printing (optional)

Simple or advanced labeling options available where barcode and real-time information can be printed for each batch.

#### 3. Box take-away (optional)

Built-in take-away conveyor for delivering complete boxes to common exit point.

#### 4. Packing stations

Each packing station is equipped with a holding bin, a pack-off chute and a tilted packing table for full visibility and easy access. Gate division is 700mm for easy removal and rotation of finished packages.

#### 5. M3210 industrial controller

User-friendly graphical interface. Touch-sensitive and IP69 water resistant. Built-in Ethernet connection links to standard PCs and Innova production management software.

# Packing process

1. A batch is collected in the pack-off shelf.

2. As a batch is being generated, operators pack fish into boxes on the packing table.

4. When a box is completed, and a new box is ready, the holding bin is reopened. The batch is then released into the pack-off shelf.

3. When a batch is completed, the holding bin closes. The next batch then begins collecting in the holding bin.

Optional: When a label printer is installed, a box label is printed when a batch is ready.

### Hygienic and easy to clean

The main structure of the grader is non-tubular and has a minimum of horizontal surfaces. It is easy to put the grader into position for washing.

### Low maintenance and operational costs

The grader is constructed with high quality components that ensure long life and low maintenance. Operational costs are kept at a minimum with low air consumption, no lubrication, and efficient drum motors. The simple, innovative construction, as well as easy adjustments, keep maintenance costs low.



Get the best price for your product



Less giveaway compared to manual packing



## Technical specifications

### Pack-off shelves and packing table for each gate

|                          |   |  |
|--------------------------|---|--|
| <b>Temperature range</b> | +7C to +40C (+45F to 104F)                  |  |
| <b>Weighing platform</b> | 700 mm                                      |  |
| <b>Dimensions</b>        | Belt height: 1650mm +/- 100mm (57" +/- 4")  | Belt width: 305mm (12"), effective width 280mm (11") |
| <b>Max. raw material</b> | Length: 500mm                               | Width: 280mm   |
| <b>Capacity</b>          | Throughput up to 125 pieces per minute      | Belt speed: 0.8 – 1.8 m/s                            |
| <b>Consumption</b>       | Air 80 l/min at 125 ppm                     |  |
| <b>Power</b>             | Voltage 3 x 400 V + N / 3 X 230 v 50/60 Htz |  |

### Options

|                              |   |  |
|------------------------------|---|--|
| <b>Infeed</b>                | Simple inline infeed conveyor.  | High-speed gooseneck infeed with dual acceleration conveyor. |
| <b>De-icer work table</b>    | Ideal when fish is received in tubs. Tubs can be discharged directly into the de-icer for easy infeed. Small ice pieces and water from the tub pass through the grid at the bottom of the de-icer, feeding only fish to the operator. |  |
| <b>Innova batch labeling</b> | Allows the operator to print labels for each batch created by the grader.   |  |
| <b>Innova grading</b>        | Allows full reporting and monitoring of the grading process.  |  |

## Innova option

The Innova option includes the Innova grading module and label printer(s) in stainless-steel enclosures. The grader is connected with Innova grading software, providing full control and monitoring of the grading operation in real time. The weight of each fish is recorded for reporting and monitoring. A range of standard reports provides detailed information about the grading process for any given period. The system comes with a comprehensive set of pre-defined operations. Additional operations can be customized and connected on site. Labels are tailor-made to meet customer needs, and can be printed from a PC.

Marel is the leading global provider of advanced equipment and systems for the fish, meat and poultry industries.