Egg Grading (Sorting) Machine

Physical Operation of the Egg Grader Machine:

The EGG GRADER MACHINE is designed for small and medium capacity farms. It is used for optimal control, weighing and sorting of eggs.

The EGG GRADER MACHINE is a simple ECO friendly design that uses low power consumption which makes it more cost effective to the industry. The EGG GRADER MACHINE has a single/Triple gravity inbound feeder to the optimize efficiency and reliability.
After passing through the single/Triple gravity inbound feeder, the EGG GRADER MACHINE then collects the eggs by using a Cam driven transfer lifter to transport the eggs smoothly to the egg weighing station.
When eggs are deposited to the egg weighing station, the eggs will be weighed according to the different grading sizes:

- JUMBO – More than 66 g
- EXTRA LARGE – 59 g - 66 g
- LARGE – 51 g - 59 g
- MEDIUM – 43 g - 51 g
- SMALL – 33 g - 43 g
If the weight of the egg is according to the above table, the weighing station will tilt with the use of gravity due to the weight of the egg, making it more reliable and cost effective without the use of additional motors (All weighing stations are fitted with Ball bearings).

If the weight of the egg is not according to the specific weighing station it will simply be transferred to the next egg weighing station.

![Figure 3: Egg Weighing Station (Sample)](image)

When passing through the egg weighing station all eggs will be deposited into different chutes allocated for the different grading sizes where the eggs can be manually pack into the correct carton holders for transportation to its destination.
Specifications (Technical)

**EGM 750**

**Dimensions:** 800mm (↔), 850mm (↕)

**Stand:** No, Table top unit with adjustable feet

**Weight:** 35 kg

**Capacity:** 750 eggs/hour

**Infeed conveyor:** single row

**Candling:** 1x15 Watt LED Strip

**Operator:** 1

**Grades:** 5

**Accuracy:** +/- 1 gram

**Power:** 230Volt 1-phase, 50Hz or 60Hz

**Optional Extra**

12V to 24V Battery Operation

Solar Operation

**Director:**

J Muller

JAP van den Heever
EGM 1500

Dimensions: 1284mm (→), 850mm (↑), 1200mm (H)
Stand: Yes, With lockable wheels
Weight: 48 kg
Capacity: 1500 eggs/hour
Infeed conveyor: Double row
Candling: 1x15 Watt LED Strip
Operator: 1
Grades: 5
Accuracy: ± 1 gram
Power: 230Volts 1-phase, 50Hz or 60Hz

Optional Extra

12V to 24V Battery Operation
Solar Operation

Director:
J Muller
JAP van den Heever
**EGM 3000**

**Dimensions:** 1284mm (↔), 850mm (↑), 1200mm (H)

**Stand:** Yes, With lockable wheels

**Weight:** 48 kg

**Capacity:** 1500 eggs/hour

**Infeed conveyor:** Double row

**Candling:** 1x15 Watt LED Strip

**Operator:** 1

**Grades:** 5

**Accuracy:** +/- 1 gram

**Power:** 230Volt 1-phase, 50Hz or 60Hz

**Optional Extra**

12V to 24V Battery Operation

Solar Operation
**EGM 4500**

**Dimensions:** 1665mm (↔), 850mm (↑), 1200mm (H)

**Stand:** Yes, With lockable wheels

**Weight:** 110 kg

**Capacity:** 4500 eggs/hour

**Infeed conveyor:** Three Rows

**Candling:** 3x15 Watt LED Strip

**Operator:** 2

**Grades:** 5

**Accuracy:** +/- 1 gram

**Power:** 230Volt 1-phase, 50Hz or 60Hz

**Optional Extra**

12V to 24V Battery Operation

Solar Operation

**Director:**

J Muller

JAP van den Heever
**EGM 6000**

**Dimensions:** 1665mm (↔), 850mm (↑), 1200mm (H)

**Stand:** Yes, With lockable wheels

**Weight:** 110 kg

**Capacity:** 4500 eggs/hour

**Infeed conveyor:** Three Rows with Conveyor Feeder

**Candling:** 3x15 Watt LED Strip

**Operator:** 2

**Grades:** 5

**Accuracy:** +/- 1 gram

**Power:** 230Volt 1-phase, 50Hz or 60Hz

**Optional Extra**

12V to 24V Battery Operation

Solar Operation