E SERIES

Net weigh scale and manual bagger

PREMIER TECH CHRONOS

PTCHRONOSASIA.COM

Net Weigh Scale

The **E55 Net Weigh Scale** from Premier Tech Chronos raises the industry's standards to a higher level with its exceptional performances. It was possible to achieve this by combining our scale experience acquired through thousands of **E55** sold worldwide and our constant desire to bring innovative technologies.

Productive

The load cell arrangement, the optimized weighing bucket geometry and our state-of-the-art SpeedAc weight controller allow it to reach an impressive speed of up to 40 BPM* in simplex configuration.

Accurate

The **E55** also provides extremely accurate weighing of up to ± 1/2 oz (15g) @ 2 sigma* with free-flowing products. This greater accuracy results in less product losses and more profit!

Reliable

The **E55** features a simple and rugged design in order to ensure years of accurate and trouble-free operation. The SS304 contact parts construction along with steep angles and generous radius corners minimize product build-up and ensure fast and efficient product discharge.

Integrated

Two choices of weight controllers are offered: The worldwide known SpeedAc NXT for stand alone and basic applications and the SpeedAc PLC which uses an Allen-Bradley controller to perform the weight control. The SpeedAc PLC can be stand alone (the scale has its own PLC and interface) or it can share the interface of the bagger for a perfect system integration when Premier Tech Chronos provides both equipment. This allows saving time and reducing the risk of errors since there is only one interface for the operator to enter the recipe and monitor the scale/bagger operation.

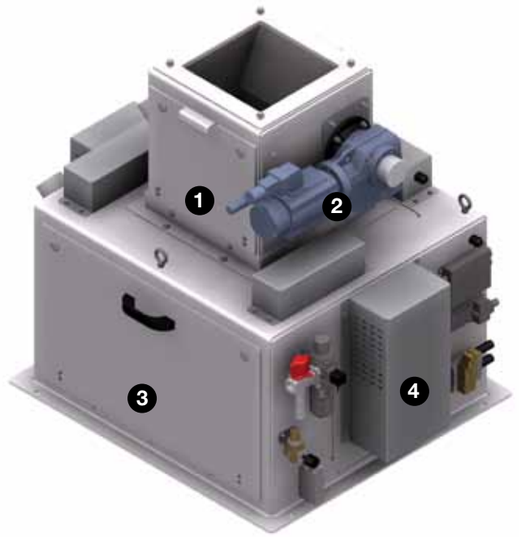
A complete range of feeders is offered to work along with the **E55** in order to suit every type of product. It comprises gravity, gravity high speed, gravity-vibratory, belt, belt high speed, screw and vibratory feeders.

*Depending on product characteristics, bag size, etc.

Gravity Feeder

The **E55G/GHS Gravity Feeder** consists of a radial gate providing main feed, slow feed and product cut-off. Used for continuous feeding of free-flowing material, this gate is controlled by pneumatic cylinders with the standard version or by a servo-motor with the high speed option. The servo-motor combines the speed of a duplex scale with all the advantages of a simplex to offer the most profitable system on the market when high output is required.

1. High speed gravity feeder
2. Servo-motor for radial gate
3. Weighing unit
4. Automatic calibration check



Applications

Sugar, rice, wood pellets, plastic pellets, salt, etc.

Features and benefits

- Compact design (no duplex configuration needed with high speed option)
- Lower cost for high output with high speed option
- No mechanical adjustment for product changeovers with high speed option
- Contact parts in SS304
- High hygienic standards

Options

- High speed version
- Full SS316 construction (contact parts and frame)
- Automatic calibration check
- Data collector for PC
- Feed hopper and support structure
- Many more

Production rate

Up to **40 BPM***

Technical data

Typical equipment dimensions: Length: 44" (1105 mm)
Width: 34" (927 mm)
Height: 38" (965 mm)

Accuracy*: ..... Up to +/- 0.5 oz (15 g) @ 2 sigma

Weighment range: ..... 5 to 110 lb (2.5 to 50 kg)

Weigh hopper size: ..... 2.3 ft^3 and 3.7 ft^3 (65 and 105 L)

Operating pressure: ..... 60-90 PSI

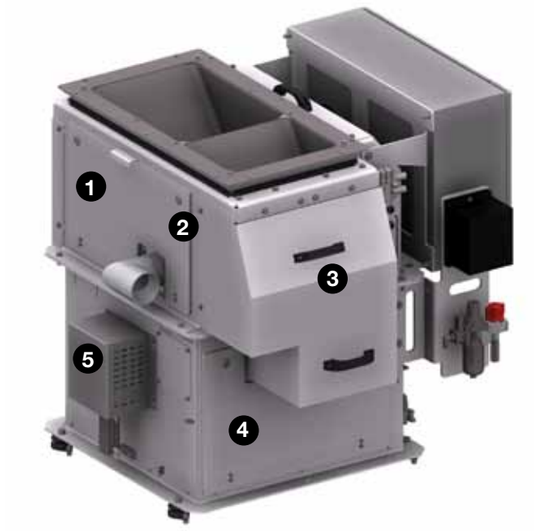
Electrical requirements: ..... 110 VAC, 1 phase, 60Hz (standard)
460 VAC, 3 phases, 60Hz (high speed)

*Depending on product characteristics, bag size, scale configuration, etc.

Gravity-Vibratory Feeder

The **E55GV Gravity-Vibratory Feeder** is designed to handle free-flowing and semi-free-flowing products. The filling process is performed in two steps. The main feed and product cut-off are achieved by a pneumatically operated radial gate then, a small vibratory feeder provides slow feed to finalize the filling cycle and reach extremely accurate results.

1. Gravity feeder
2. Automatic feeder adjustment
3. Vibratory feeder
4. Weighing unit
5. Automatic calibration check



Applications

Corn seeds, soy beans, bird seeds, pet food etc.

Features and benefits

- Very high accuracy
- No mechanical adjustment for product changeovers (with automatic feeder adjustment option)
- Contact parts in SS304
- High hygienic standards

Options

- Automatic feeder adjustment (linear actuator)
- Duplex configuration
- Full SS316 construction (contact parts and frame)
- Automatic calibration check
- Data collector for PC
- Feed hopper and support structure
- Many more

Production rate

Up to **17 BPM*** (simplex configuration)
Up to **32 BPM*** (duplex configuration)

Technical data

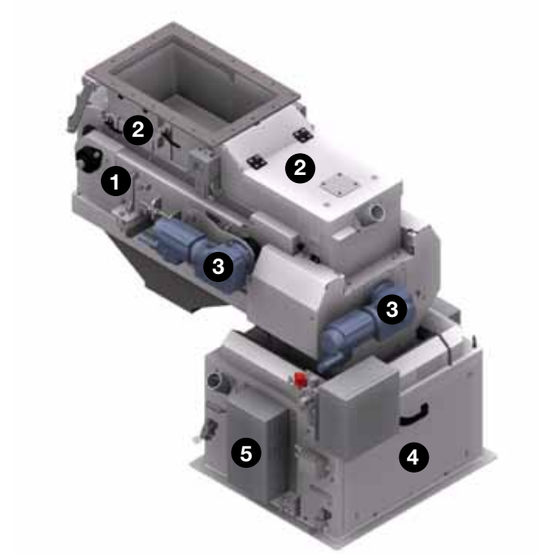
Typical equipment dimensions: Length: 49” (1245 mm)
Width: 44” (1118 mm)
Height: 43” (1092 mm)
Accuracy*: ..... Up to +/- 0.5 oz (15 g) @ 2 sigma
Weighment range: ..... 5 to 110 lb (2.5 to 50 kg)
Weigh hopper size: ..... 1.6 ft^3, 2.3 ft^3 and 3.7 ft^3 (45, 65 and 105 L)
Operating pressure: ..... 60-90 PSI
Electrical requirements: ..... 110 VAC, 1 phase, 60Hz

*Depending on product characteristics, bag size, scale configuration, etc.

Belt Feeder

The **E55B/BHS Belt Feeder** is designed to handle non-free-flowing products and to provide great cleaning access. The belt is driven by a two-speed motor with the standard version or by a servo-motor with the high speed option. In the standard version, the innovative catch gate used to cut the dribble flow and to do the final cut-off is controlled by pneumatic cylinders. In the high speed version, it is accomplished by a servo-motor. Combined with a highly efficient control unit, the servo-motor can combine the speed of a duplex scale with all the advantages of a simplex to offer the most profitable system on the market when high output is required.

1. High speed belt feeder
2. Cleaning access covers
3. Servo-motor
4. Weighing unit
5. Automatic calibration check



Applications

Dry and wet animal feed, pellets, minerals, etc.

Features and benefits

- Compact design (no duplex configuration needed with high speed option)
- Lower cost for high output with high speed option
- Contact parts in SS304
- High hygienic standards
- Great cleaning access
- Direct drive belt

Options

- High speed version
- Duplex configuration
- Automatic calibration check
- Data collector for PC
- Feed hopper and support structure
- Many more

Production rate

Up to **20 BPM*** (simplex configuration)
Up to **35 BPM*** (duplex configuration)

Technical data

Typical equipment dimensions: Length: 69” (1753 mm)
Width: 44” (1118 mm)
Height: 60” (1524 mm)
Accuracy*: ..... Up to +/- 1.4 oz (40 g) @ 2 sigma
Weighment range: ..... 5 to 110 lb (2.5 to 50 kg)
Weigh hopper size: ..... 2.3 ft^3 and 3.7 ft^3 (65 and 105 L)
Operating pressure: ..... 60-90 PSI
Electrical requirements: ..... 460 VAC, 3 phases, 60Hz

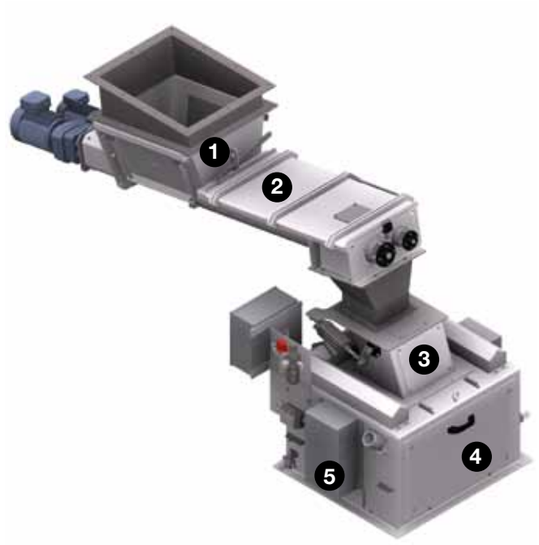
*Depending on product characteristics, bag size, scale configuration, etc.

Screw Feeder

The **E55DSR Screw Feeder** is designed to handle non-free-flowing, powdery or fluidized products. It comprises one main screw for the bulk filling cycle and one smaller screw for the dribble filling cycle. Each screw is directly driven with its own motor in order to minimize moving parts and thus reduce maintenance and wear.

Designed for easy cleaning, the screws are contained in a totally enclosed housing which ensures no dust emission. Its sanitary design and proven high accuracy will ensure optimum operations and a fast payback.

1. Screw feeder
2. Cleaning access covers
3. Catch gate
4. Weighing unit
5. Automatic calibration check



Applications

Bran, flour, minerals, milk powder, etc.

Features and benefits

- Great accuracy
- Contact parts in SS304
- High hygienic standards
- Great cleaning access
- Direct drive on each screw

Options

- Vibrator to clean the weigh hopper
- Duplex configuration
- Drive to adjust the speed of the screw
- Automatic calibration check
- Data collector for PC
- Feed hopper and support structure
- Many more

Production rate

Up to **12 BPM*** (simplex configuration)
Up to **22 BPM*** (duplex configuration)

Technical data

Typical equipment dimensions:	Length: 116” (2946 mm) Width: 44” (1118 mm) Height: 60” (1524 mm)
Accuracy*:	Up to +/- 1.4 oz (40 g) @ 2 sigma
Weighment range:	5 to 110 lb (2.5 to 50 kg)
Weigh hopper size:	2.3 ft3 and 3.7 ft3 (65 and 105 L)
Operating pressure:	60-90 PSI
Electrical requirements:	460 VAC, 3 phases, 60Hz

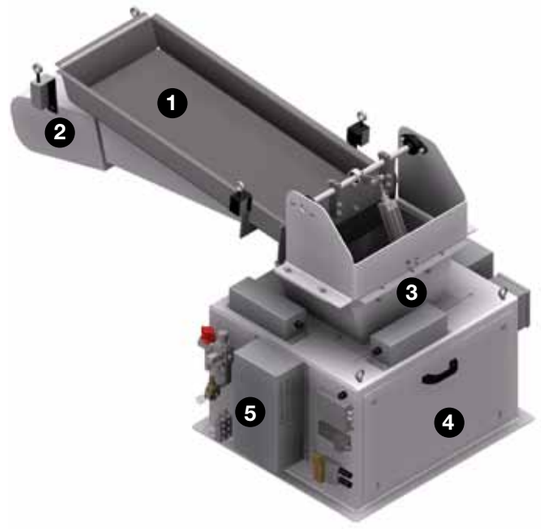
*Depending on product characteristics, bag size, scale configuration, etc.

Vibratory Feeder

The **E55V Vibratory Feeder** consists of a large vibrating pan mounted on rugged profiled steel frame with flexible supports. Its electro-magnetic vibrator with analogical frequency controls enables optimum fast and slow material feed settings. Furthermore, a pneumatically operated catch gate provides an accurate and consistent product cut-off.

Perfectly adapted for a wide variety of hard-to-handle products and continuous operations under rough industrial working conditions, the **E55V Vibratory Feeder** is among the most durable scale of the industry.

1. Vibratory feeder
2. Electro-magnetic vibratory
3. Catch gate
4. Weighing unit
5. Automatic calibration check



Applications

Rocks and aggregates

Features and benefits

- Very few moving parts for trouble-free operation
- Sturdy design for tough environments
- Product stream depth regulator above the vibrator tray inlet
- Catch gate to ensure consistent cut-off
- Frequency controls to provide optimum bulk and dribble feed rates

Options

- Duplex configuration
- Automatic calibration check
- Wear liners in the weigh hopper
- Data collector for PC
- Feed hopper and support structure
- Many more

Production rate

Up to **12 BPM*** (simplex configuration)
Up to **22 BPM*** (duplex configuration)

Technical data

Typical equipment dimensions:	Length: 78” (1981 mm) Width: 44” (1118 mm) Height: 48” (1219 mm)
Accuracy*:	Up to +/- 3.5 oz (100 g) @ 2 sigma
Weighment range:	5 to 110 lb (2.5 to 50 kg)
Weigh hopper size:	2.3 ft^3 and 3.7 ft^3 (65 and 105 L)
Operating pressure:	60-90 PSI
Electrical requirements:	460 VAC, 3 phases, 60Hz

*Depending on product characteristics, bag size, scale configuration, etc.

Speedac NXT Weight Controller for Bagging Systems

The **SpeedAc NXT** uses state-of-the-art microprocessor-controlled technology to provide extremely precise bag weights for various bulk materials. Used with all of our bagging systems requiring weight measurement, this user-friendly controller allows complete control of the filling process with unprecedented efficiency. Operation is carried out via a large graphic display, which provides performance feedback, fine-tuning functions, statistical data, information on the system status and much more. The **SpeedAc NXT** guarantees the accuracy of weighments in dynamic operation as per OIML R61.The static accuracy complies with class III as per OIML R76 or EN 45501.

The SpeedAc NXT can communicate with peripheral equipment such as printers, PLCs and PCs.

To facilitate entry of large amounts of text a PC keyboard can be connected to the SpeedAc NXT.

Features and benefits

- 200 weigh programs capability
- Various serial communication ports available (for printer, PLC and PC)
- Capacity of up to 960 load cell readings per second for precision measurement
- Large back - lit LCD graphic display
- Millivolt calibration and 5 - point linearization calibration
- Configuration protected by four password levels
- Numerous basic functions available:
  - 2-3 speed or analogue dosing control
  - Automatic material in flight compensation
  - Full flow regulation for performance optimization
  - Multi dumping and batch counting
  - Fault and production reports
  - Statistical data, etc.

Options

- Device Net, Profibus DP, Ethernet IP and Remote I/O interfaces
- Extension modules for 24 I/O
- Serial expansion boards
- 0 - 20/4 - 20 mA,0 -10 V analogue output, etc.

Technical data

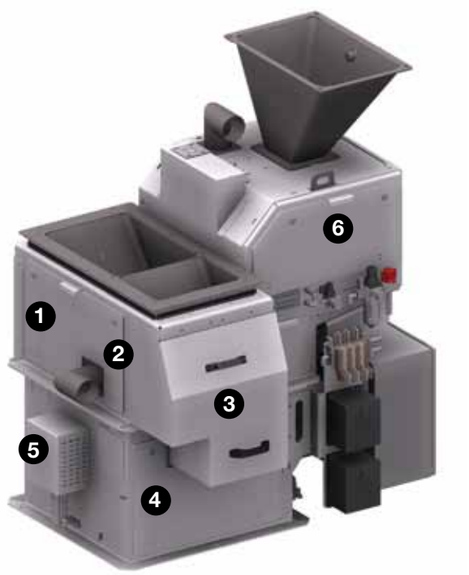
Display: ..... 116 mm x 86 mm (320 x 240 pixels)
Keyboard: ..... 27- key membrane panel, PS/2 port for external keyboard connection
Digital I/O: ..... 24 input/output configurable module
COM ports: ..... RS - 232 and RS - 485 (Optional Ethernet TCP/IP)
Internal resolution: ..... 8,000,000 counts/23 bit
OIML R76: ..... nmax=6000
Weight display resolution: 9,999,999
Power consumption: ..... 340 mA @ 115 VAC or 240 mA @ 230 VAC
Ambient temperature (non-condensing): ..... -10°C up to +40°C
Storage temperature (non-condensing): ..... -10°C up to +70°C
Load cell connection: ..... 1-16 @ 350 Ω

E955 Blending Scale

WEIGHING & FEEDING SYSTEMS

The **E955 Blending Scale** is an innovative scale designed to weigh and blend two different free-flowing or semi-free-flowing products into the same bag with a split reaching up to 90%-10%. It consists of a main weighing hopper fed by a gravity-vibratory feeder and an auxiliary weighing hopper fed by a vibratory feeder. The two products are blended in the main weighing hopper and top-up is done to accurately reach the final target weight. Moreover, the **E955's** innovative design provides extremely accurate weighing (on the total weight of the bag and on the split of the blend), which results in reduced product loss and more profit.

1. Gravity feeder
2. Automatic feeder adjustment
3. Vibratory feeder
4. Main weighing unit
5. Automatic calibration check
6. Auxiliary weighing



Applications

Corn seeds, soy beans, bird seeds, pet food etc.

Features and benefits

- Very high accuracy and high hygienic standards
- Homogeneous blend
- No mechanical adjustment for product changeovers (with automatic feeder adjustment option)
- Contact parts in SS304
- Recordability of the blend
- Compact design

Options

- Automatic feeder adjustment (linear actuator)
- Duplex configuration
- Tote box filler dust hood
- Automatic calibration check
- Data collector for PC
- Feed hopper and support structure
- Many more

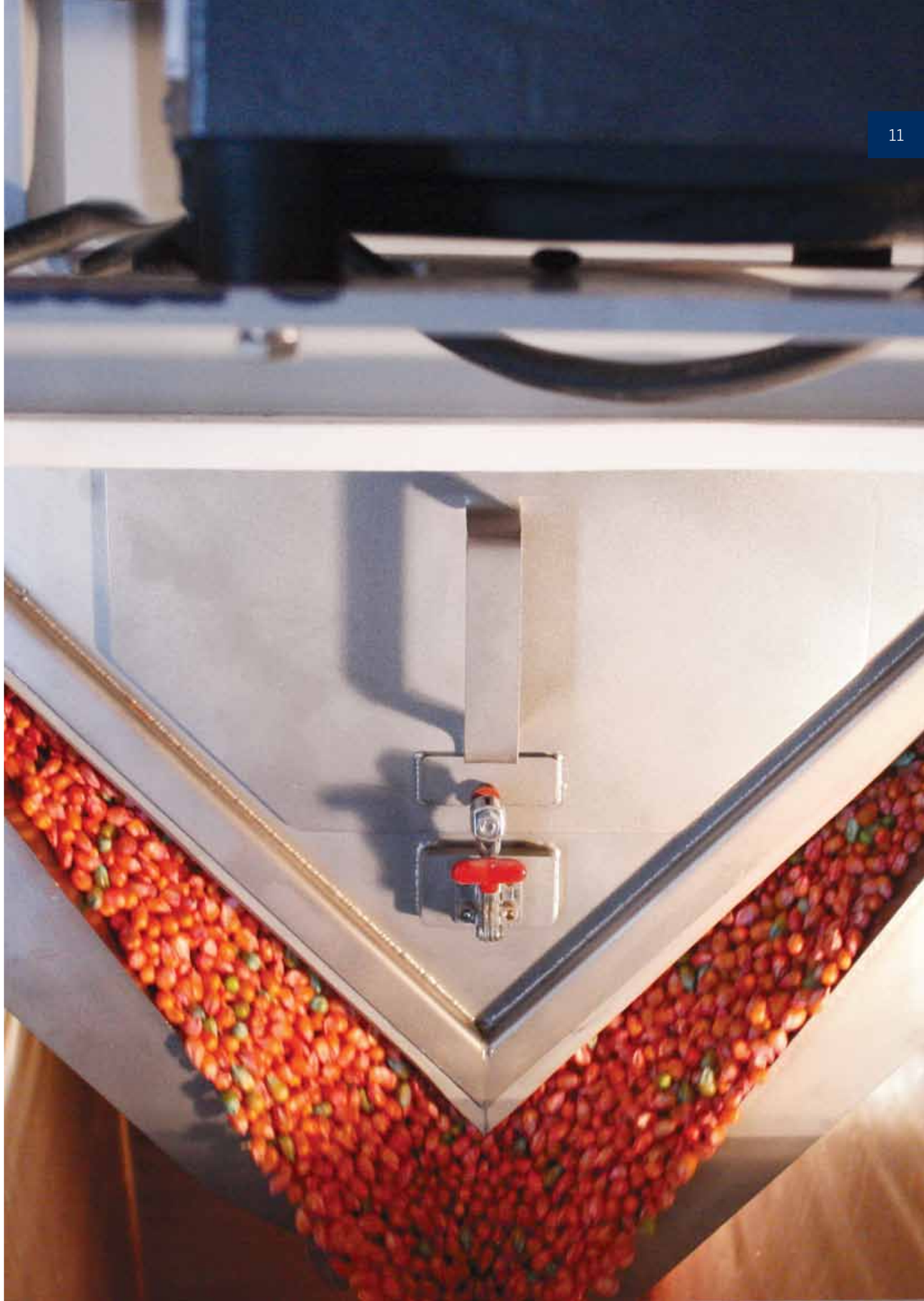
Production rate

Up to **12 BPM*** (simplex configuration)
Up to **24 BPM*** (duplex configuration)

Technical data

Typical equipment dimensions: Length: 59" (1499 mm)
Width: 44" (1118 mm)
Height: 66" (1676 mm)
Accuracy*: ..... Up to +/- 0.5 oz (15 g) @ 2 sigma
Weighment range: ..... 5 to 110 lb (2.5 to 50 kg)
Weigh hopper size: ..... 1.6 ft^3, 2.3 ft^3 (45 and 65 L
Operating pressure: ..... 70-90 PSI
Electrical requirements: ..... 110 VAC, 1 phase, 60Hz

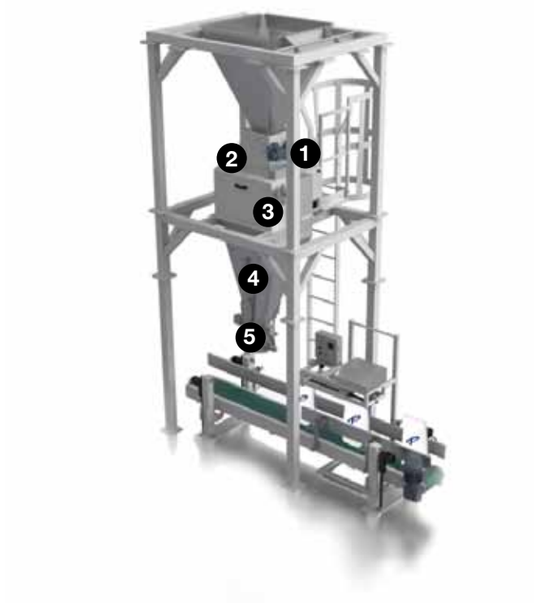
*Depending on product characteristics, bag size, scale configuration, etc.



Manual Bagging Scale-Net (E55 MB Series)

The **E55 MB Series Manual Bagging Scale** (net) is a state-of-the-art electronic net weighing system designed to be used as a bagging station in combination with bag clamps, a closing system, and a conveyor. It is designed to operate in a wide range of applications such as food, pet food, feed, seeds, chemicals, salt, aggregates, etc. In order to accommodate these various products, the system comes with five possibilities of feeding devices (gravity, gravity-vibratory, belt, screw, and vibratory feeders).

1. Gravity feeder
2. Three load cells
3. Electronic net weigher
4. Transition hopper
5. Manual bag spout



Applications

Food, pet food, feed, seeds, chemicals, salt, aggregates, etc.

Features and benefits

- Incomparable production speed on certain models thanks to the servomotor-controlled catch gate
- Accuracy as high as ± 1/2 oz (15 g) @ 2 sigma*
- Simple construction and sturdy design for long-term reliability
- User-friendly weight controller (SpeedAc NXT)
- Choice of round dust-tight manual bag holding system for dusty applications or v-shape bag holding system for fast placement of empty bag (granular applications)
- Weigh hopper directly suspended from three strain-gage load cells in order to provide a very rigid weighing system, better accuracy, and excellent stabilization time.
- Quick connect junction box, valve manifold, and sensors allowing quick installation and easy mainte nance

* Depending on feeder type, bag holder type, product characteristics, bag size, speed, operator skill, etc.

Production rate

Up to **20 BPM***

* Depending of product, bag weight and accuracy

Technical data

Typical equipment dimensions: ..... Length: 88” (2235 mm)
Width: 140” (3556 mm)
Height: 201” (5105 mm)
Bag width: ..... From 13.75” to 33.0” (330 to 838 mm) depending of selected spout size
Air consumption: ..... 0,3 to 0,5 SCF/cycle (depending of the feeder)
Electrical requirements: .. 110V / 1Ph / 60Hz (460V / 3Ph / 60 Hz if the feeder or the bag conveyor requests it)
Operating pressure: ..... 70-90 PSI
Ambient temperature: .... 40°F to 95°F (5°C to 35°C)

Manual Bagging Scale-Gross (GE55-S18)

MANUAL BAGGING SYSTEMS

The electronic gross weigher **GE55-S18** is a manual bagging scale designed to meet international standards and provide high accuracy and reliability. The simple construction and sturdy design ensure safe and accurate operation. This manual bagger can be combined with any of our feeding devices (high-speed or standard gravity, high-speed or standard belt, screw and vibratory) to suit a variety of materials including food, feed, chemical and building materials. It uses an advanced weight controller (SpeedAc NXT).

Applications

Food, feed, chemical and building materials.

Features and benefits

- Rigid support structure in welded steel is provided to avoid all possible vibrations from the feeding unit
- Clean and dust-free operation
- Leverless weighing system with three strain-gage load cells
- User-friendly weight controller (SpeedAc NXT) with multiple display screens providing performance feedback, fine-tuning capabilities, statistical data, etc.
- Upper part of the bagging spout suspended from the load cells
- Automatic zero correction, material-in-flight compensation, and selection of the desired time or weight in dribble flow rate
- Extensive statistical information can be downloaded to the customer’s computer or printed out locally at the end of a batch
- Manual operation of the bag clamp by means of one pair of pneumatic push buttons with safety controls

Production rate

Up to **5 BPM***

* Depending of product, bag weight and accuracy

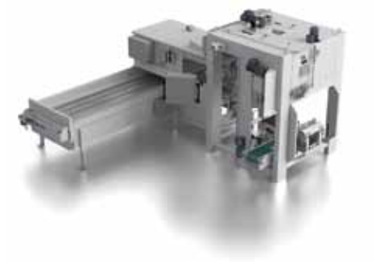
Technical data

Typical equipment dimensions: ..... Length: 31” (787 mm)
Width: 25” (635 mm)
Height: 88” (2235 mm)
Bag width: ..... From 14,25” to 28,5” (355,6 to 711,2 mm) depending of selected spout size
Air consumption: ..... 0,3 to 0,5 SCF/cycle (depending of the feeder)
Electrical requirements: .. 110V / 1Ph / 60Hz (460V / 3Ph / 60 Hz if the feeder or the bag conveyor requests it)
Operating pressure: ..... 70-90 PSI
Ambient temperature: .... 40°F to 95°F (5°C to 35°C)

Downstream Equipment: Bagging Systems

High-speed open-mouth baggers

PTK Series



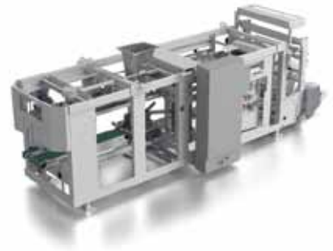
Applications

Feed, food, mineral, chemical, seed, etc.

- PP, plastic, and all paper bags from 20 to 110 lb (5 to 50 kg)
- Hygienic design
- Automatic adjustments available for faster changeovers
- PLC controlled scale
- Capacity of up to 25 BPM with single spout and up to 40 BPM for the dual spout version

Horizontal form, fill and seal baggers

FFS Series



Applications

Growing media, forestry, mineral, chemical, feed, seed, etc.

- Fully automatic bagging systems
- Bags made from a roll of center-folded film (U film)
- Numerous bag options available
- Capacity of up to 35 BPM, depending on product characteristics and bag sizes

Open-mouth baggers

PTH Series

Applications

Feed, food, mineral, chemical, forestry, etc.

- Laminated PP and all paper bags from 20 to 110 lb (5 to 50 kg)
- Bag detection switch on spout
- Modular design upgradable to a fully automatic machine
- Capacity of up to 20 BPM, depending on product characteristics and bag sizes

Open-mouth baggers

PTS Series

Applications

Feed, food, mineral, chemical, seed, growing media, etc.

- Top justify
- PP and plastic bags from 20 to 110 lb (5 to 50 kg)
- Automatic adjustments available for faster changeovers
- PLC controlled scale
- Capacity of up to 22 BPM, depending on product characteristics and bag sizes

Office

Chronos Richardson India Pvt. Ltd.
A 21, Third Floor,
Green Park Main
New Delhi - 110016
India
+91 11 26523533
info@chronosrichardson.in

CHRONOS
RICHARDSON

Manufacturing Plant

Chronos Richardson India Pvt. Ltd.
Plot No. 5E, Sector 4,
Ballabgargh - 121004
Haryana
+91 129 2243002
info@chronosrichardson.in

PREMIER TECH
CHRONOS

WE CARE

PREMIER TECH
CUSTOMER CARE

info@ptcustomercare.com
PTCUSTOMERCARE.COM