# Weigh/Count, Bagging & Labeling Solutions

Advance's complete line of scales, weigh/counters, bagging and labeling machines work quickly and efficiently to package your products ensuring that correct quantities are delivered in each bag every time. We use our experience and our capabilities to quickly, effectively, and accurately count and bag your product, whether in unit quantity or by weight.

Advance has a variety of equipment for weighing, counting and bagging a wide range of fasteners. Our counting and bagging equipment contain some highly technical innovations including a water injection system on our bagging machine for nylon parts and a counter with solutions based upon rapid real-time image processing of multiple objects as they fall. This technology enables 100 per cent accurate and reliable automated counting so thousands of small objects can be counted (and packaged) in bulk at very high speeds. All our systems have in-line thermal transfer printers so we can custom print or bar-code directly onto every bag. We also use in-line digital bar code readers to ensure accuracy and readability. Advance stocks bags in sizes: 5" x 7" and 8" x 10".

## Line 1 /Option 1: Hand Scale & Auto-Bagging System

**Benefits –**

Using a hand scale and auto-bagging system allows for flexibility in weighing and counting a wide range of products and sizes. This is a good option for very small and odd shaped parts or for parts that tend to nest or lock together. Your requirements for speed, volume, shape, size, and the application of your product will decide if this is the solution that works best for you. Advance Components utilizes either a Setra Super II or Setra Supercount High-Resolution Counting Scale combined with an Autobagger H-100 and a P1-4000 Auto Label thermal transfer printer for our hand scaling and auto-bagging solution.

**Equipment –**

1. **Setra Super II High-Resolution Counting Scale –**



A superior counting scale, the Super II combines incredible accuracy with easy-to-read text prompts enhanced by a backlit display. It's internal database, bar code label making, set points and multiple base connectivity make it truly flexible. Super II is unquestionably the superior choice in counting scales for all inventory, kitting, and check-weigh needs.

2. **Setra Supercount High-Resolution Counting Scale –**



A patented variable capacitance weighing technology lets the scale display weight changes as minute as 1 part in 125,000. The internal resolution, which is four to ten times greater than the display readability, allows operators to work with smaller sample sizes thereby saving time and reducing hand counting errors.

3. **Autobag AB 180 –**

This auto-bagging system operates at speeds up to 30 bags per minute, printing high-resolution text, graphics and bar codes up to 12 inches per second. It is uniquely designed to provide flexible solutions for dynamic packaging environments like ours. This versatile system is ideal for packaging small to medium products.

4. **P1 412C Autobag Thermal Transfer Labeler –**

Capable of thermal bag printing at speeds up to 12 inches per second or approximately 80 bags per minute inline. This programmable bag printer can be used as a stand-alone system, or combined with Autobag bagging systems for inline printing and packaging. Used for custom bag labels with high-resolution bar codes, text and graphics. Advance utilizes **Teklynx Labelview** Barcode label design software to easily and accurately design and print labels on all our bags. Custom designs including logos, bar codes and many other data or design elements can be included.

## Line 1/Option 2: Weigh-Counter & Bagging System

**Benefits –**

Utilizing an in-feeding weigh-count scale combined with a bagging system and an auto-labeler provides a complete, semi-automatic solution. This system is ideal for products that tangle or do not flow easily. It allows for quick set-up and rapid product changeovers so short runs can be accommodated; able to count and weigh bulk product from 1/10th of a gram up to 5 pounds in weight. This set-up provides for extreme weigh counting accuracy and is Ideal for product flexibility - small, light-weight and heavier parts can be batched utilizing the automatic sensitivity control.

**Equipment –**

1. **Accu-Scale 220**

A simple, highly sensitive in-feed system that accurately weigh-counts small parts; capable of detecting and counting small parts as light as 1/10th of a gram in weight. Simply place a sample of the product to be counted into the tray, and the scale virtually programs itself to count the product accurately. As more products are added, the new weight is instantly measured and the piece count is displayed. Once the desired amount is reached, a foot-pedal-operated flip-tray dispenses each batch into a pre-opened Autobag bag. This system can also be used in a traditional scale mode for direct weight measurement and dispensing.

2. **Autobag AB 180**

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## Line 3: Fully Automated Continuous Counter & Bagging System

**Benefits –**

This is a super accurate high-speed counting system that detects and rejects parts one-third smaller or larger than a target part thereby separating the good parts from the bad. Automated system utilizes scanners that provide the highest accuracy count possible; out of tolerance parts are rejected prior to entering package. Combined with a vibratory bowl feeder and a bagging system with an auto-labeler, this system provides a complete totally-automated solution, requiring minimal supervision.

**Equipment –**

**1. Syntron Vibratory Bowl Feeder 24 CCW –**

A bowl feeder is used to feed parts into the Batchmaster continuous counter. When using a bowl feeder, orientation of the parts relies on the shape and mechanical behavior of the part. The ramps within a bowl feeder are specifically designed for each part, although the core mechanism is re-used across different parts. The exit orientation of a bowl feeder depends on the part's shape and mass distribution. Where this is not the orientation needed for the following assembly step, a feeder is often followed by a twisted conveyor that turns the part over, as needed. Because parts must be able to feed through the bowl feeder, and given the wide variety of dimensions and characteristics of individual fasteners, this solution is not possible for all parts.

**2. Batching Systems Batchmaster III Continuous Counter –**

The only counters that utilize patented dual view scanners that provide the highest accuracy count possible. Out of tolerance parts are rejected prior to entering a package. An accurate high-speed counting system that detects and rejects parts one-third smaller or larger than a target part thereby separating the good parts from the bad. The processing unit is designed with a transparent front panel for visual inspection of gate movement and product flow.

**3. Sharp Packaging System Max –**

The Sharp® MAX™ automatic bagging machine delivers speed and versatility to our packaging operation. Touchscreen controls provide access to label creation, job storage and troubleshooting diagnostics.

**4. SP-203 Auto Labeler –**

An in-line programmable bag printer capable of custom bag labels with high-resolution bar codes, text and graphics, offering efficiency and superior quality printing. Advance utilizes Teklynx Labelview Barcode label design software to easily and accurately design and print labels on all our bags. Custom designs including logos, bar codes and many other data or design elements can be included. Advance utilizes **Teklynx Labelview** Barcode label design software to easily and accurately design and print labels on all our bags. Custom designs including logos, bar codes and many other data or design elements can be included.

## Line 4: Fully Automated Continuous Counter & Bagging System

**Benefits –**

This is also a super accurate high-speed counting system that detects and rejects parts one-third smaller or larger than a target part thereby separating the good parts from the bad. Automated system utilizes scanners that provide the highest accuracy count possible; out of tolerance parts are rejected prior to entering package. Combined with a hopper, a vibratory bowl feeder and a bagging system with an auto-labeler (and a digital barcode reader to ensure accuracy), this system provides a complete totally-automated solution, requiring minimal supervision.

**Equipment –**

**1. BSI Storage Hopper with Vibratory Feed Tray –**



The BSI standard storage hopper has 4 cubic feet capacity providing a backlog of bulk parts prior to entering the feeder bowl. This hopper eliminates overloading or insufficient loads of parts, causing the bowl not to function as required. Feed rate from the hopper to the bowl can be metered by a level control switch. Use of the hopper depends on size and type of parts being run.

**2. Syntron Vibratory Bowl Feeder 24 CCW –**



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**3. Batching Systems Batchmaster II Continuous Counter –**



The BatchMaster II is the second generation automated metering system for a wide variey of uses. With a combined control system which has the best features of the previous generation batching system and added options like catalyst and base color metering into a single system that is both flexible and reliable.

**4. Sharp Packaging System Max –**



The Sharp® MAX™ automatic bagging machine delivers speed and versatility to our packaging operation. Touchscreen controls provide access to label creation, job storage and troubleshooting diagnostics.

**5. Keyence Triple 3Hi-Digital Ultra-Compact Digital Barcode Reader –**



This in-line laser scanner reliably reads barcodes printed on each bag regardless of vibration or the random position of the targets ensuring accuracy and readability of every package.

### 6. SP-203 Auto Labeler –

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