

KEY-PAK Machines

Research & Development Packaging Corp.
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Packaging – Processing

Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com

MICROPROCESSOR NET WEIGHERS

Keeping pace with the modern net weighing requirements of industry for both packaging and processing applications, Research & Development Packaging Corp. offers automatic key-programmed net weighers with microprocessor control for ultraprecision weighing of dry, free-flowing products prior to packaging. These digital net weighers provide greater sophistication for more demanding requirements, such as guaranteed "O" underweights. The state-of-the-art electronics facilitates operator set-up for multiple weigh buckets with minimum data entry.

These Net Weighers are readily adaptable to production line requirements and are programmable for weigh-counting or batching operations. Some industries which use this equipment include a wide variety of food products (candy, nutmeats, health foods, snack foods, etc.), chemicals, pharmaceuticals, various parts and components, plus many others.

General Specifications

Model Nos.: NW100 (1 head) NW200 (2 heads) NW300 (3 heads) NW400 (4 heads)

Microprocessor Controls

1. A multi-processing, high resolution Z-80 computer with solid state, electronic, printed circuit boards.
2. Plug-in chips and test points for easy and fast maintenance/servicing.
3. Auto-zeroing can be accomplished after each weighment has been completed and discharged from weigh bucket or, periodically, depending on product and speed required.
4. Data is entered through keyboard mounted in panel located on top of control console. This panel includes a four(4) digit LED display, 16 key keyboard, thumb wheel required for setting weigh buckets by number, manual dump switch for set-up, keyboard enable lock (to prevent unauthorized tampering with data entered) and optional avoirdupois/metric switch. By setting thumb wheel at "O," the set points for bulk and dribble feed and check weights can be set **at one time** for any number of buckets up to a maximum of 8. Controls include an override so that the set points for feeders on any weighing head can be set individually. The performance of each weigh bucket can be monitored repetitively, as may be required.
5. Product discharge sequence begins at bucket 1 and continues through a maximum of 8. It then returns through 7, 6, etc. to 1 at which point the overall sequencing recycles. This process assures that all lanes are in operation and that there is equal product distribution throughout the weighing system. Through interlocking circuitry, only one bucket will discharge at a time so that there is no danger in inaccuracies due to double dumping. Each lane can be operated separately in the event that production requirements do not call for the complete system to be in operation.
6. Each weighment is checked and, if underweight, the trim feeder starts again to add more product. This checking procedure continues until verification that weighment is complete, thereby, eliminating underweights.
7. The System can be interfaced for operation with commercially available peripheral equipment (such as computer, CRT display, printers, counters, etc.) as required to accumulate production data or to perform related functions.

Product Handling/Weighing

(All product contact points are stainless steel construction.)

1. **Supply Hopper** — Style to facilitate product flow characteristics. Various types are available depending on requirements. Hopper vibrator can be supplied as necessary.
2. **Multiple Feeders** — Two (2) feeders, mounted in tandem, for products requiring standard product control. A "V" feeder and fast feed/final cut-off gates can be provided for added product control in certain applications. (A good example of the type of product for which this is required is twist wrapped candies.) Widths and lengths of feeders will be selected for the particular requirement. Controls on the console are used to precisely set bulk and dribble feed rates.
3. **Weigh Buckets** — A single weigh bucket per lane is standard. An optional dual weigh bucket can be provided for each weighing head with product divertors to direct flow into either bucket in sequence. A maximum of 8 buckets can be supplied on a 4 head unit and the size varies depending on product volume. Air actuated gates release acceptable weight product and return to initiate fill cycle automatically.
4. **Load Cells** — There is one load cell to sense the weight of each weigh bucket. The cells are temperature compensated, stable, compact, and designed to function with off-center loads.
5. **Discharge Chute** — Used to funnel completed weight from each bucket into a common channel. Design can be modified depending on use of machine and dimensional requirements. Chute is supported from the frame.
6. **Framework** — Weighing heads are mounted on common framework, as a unit. If Research & Development Packaging Corp. supplies the supporting structure, a control console can be mounted thereto or it can be provided for remote mounting.

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