Automatic Packaging Units for Metal and Plastic Parts

- Feeding
- Weighing/Counting
- Packaging
- Labelling

Application field:
- Storage bin
- Z steep conveyor
- Electronically controlled filling scale
- Distribution system SLC (small load carrier) or bag
- Synchronal feed system for SLC/box filling
- Foil packaging machine with thermal printer
- PC control

K&K fully automatic packaging units for technical products
Plastic parts are packed into SLC, box or plastic bag

The correct measure for your packaging
Customer-specific solutions of top quality

Packaging unit for SLC and plastic bag filling

With this unit technical products are packed into various SLC, boxes and plastic bags for the automobile industry.

- Core part of the unit is the fully automatic 1-line filling scale which can portion up to 2,000 different products by exact number.
- After the scale the batches are fed through the distribution system to the corresponding type of packaging.
- The unit is set up and operated right at the PC.
- By entering the part number the scale is automatically set up to the correct type of packaging.
- Packaging weights up to 15 kg.
- Performance of the unit is up to 8 SLC/bags per minute (with a 2- or 3-line scale the performance increases correspondingly).
- Reversal time from SLC filling to plastic bag filling with tt-print < 3 min.

Semi-automatic packaging unit

Fast and flexible packaging solution for frequent product changes and small batches. Box and SLC filling with integrated pouring function

- Transport baskets are placed and automatically emptied into the supply hopper.
- One box/SLC is placed into filling position.
- Control of the belt conveyor speed via foot pedal.
- Filling quantity can be viewed on display during filling.
- Exact pieces per minute as specified is created manually.
- Weighing range/quantity indication can be freely selected.

Automatic packaging unit

Extreme compact packaging solution for SLC filling with plastic parts

- SLC can be filled up to sizes 4314.
- Fully automatic 1-line scale in 0-step version.
- Transferring hopper.
- Synchronous feed system with filling station.
- Mobile base with locking device.
- Mobile unit which can be used at various places.
We construct and manufacture complete packaging units individually according to our customers’ requests. Whenever materials which can be poured are precisely measured and are to be packed, our systems can be used.

Whether semi-automatic starter systems or fully automatic units with connection to existing operating data systems – we offer the optimal professional solution for your need.

Extremely high quality and reliability of our systems are the results of more than 25 years of experience. We offer an excellent value for money and an optimal service for all machines. These are our special qualities.

K&K units are known for their sturdy and torsion-free base structure made of high-quality steel as well as for their robust and maintenance-free mechanics, easy operation and short reversal time.

Products can be easily changed by just one mouse-click, so to say, with a PC control specifically developed by K&K. Topics just like sorting accuracy, mixing of products, measuring of residual quantity, running empty and noise protection are already considered in the basic concept of our units.

K&K units are designed to withstand the most heavy-duty conditions. They have proved themselves in multier practice. Easy handling, high availability and longevity make many of our customers work with several K&K units.

Compact packaging unit for bulk packaging

Packaging unit for filling various boxes.
- Directly connected to the production line.
- Automatic filling of snack products 2 – 10 kg.
- Fully automatic scale.
- 10 different box sizes.
- Max. box size: 500 x 600 x 400 mm (L x W x H).

High-performance scale for small quantities

This scale has been especially developed for fragmented small parts which need to be packed extremely precise and with high performance.
- Exact supply of the scale from one central supply point through a pneumatically actuated swivel feed system with storage bin.
- Transfer hopper to the packaging machine with storage pan.
- Overweight separating device.
- K&K PC control with statistics program.

Technical data of shown 3-line scale:
- Weight per piece: min. 0.02 g, max. 3.00 g
- Packaging weights: min. 2.00 g, max. 200.00 g
- Accuracy: 0.01 g
- Accuracy reference scale: 0.001 g
- Performance: up to 25 W/min

With the integrated thermal printer system the plastic bags can be individually labelled.

The K&K PC control can store and manage setting values and product data for up to 10,000 various articles.
Fully automatic packaging unit for technical products

This packaging unit fills plastic bags which are afterwards transferred into SLC or boxes in the required quantity.

Special features of this shown system:
- Diameter of the products to be packed from 2 mm up to 45 mm.
- Fully automatic product feed through lift-and-tilt system connected with a storage bin.
- Fully automatic filling scale with integrated reference scale.
- Fully automatic counter.
- Fully automatic bag packaging machine with labelling system.
- Transfer belt
- Synchronal feed way
- Superordinated PC control with connection to the inventory management system of the customer.

Fully automatic packaging unit for high efficiency

With packaging unit metal parts are filled into SLC and boxes.

Special features of the shown system:
- Fully automatic product feed through pouring unit at ground level in connection with 1,000 kg storage bin.
- Supply through Z steep conveyor and swivel distribution.
- Quick-emptying of the complete feed.
- Fully automatic 2-line filling scale.
- Transfer system with storage pan and lift-and-lower function.
- Filling station with jounce function.
- Bypass switch for sack filling.
- Synchronal feed way.
- Superordinated PC control with reference scale.
- Reference efficiency 10 SLC 4314 per minute.

Product change by one click

Core part of a complete system by K&K is our PC central control. This control can store and manage up to 10,000 various articles. All setting data of the scale are entered through the PC and can be viewed in a menu.

Bag packing machines or cartoning machines, which are equipped with a Siemens SPS, can be managed from our PC control system. Labelling systems like the thermo transfer printer or the label dispenser are also managed through our PC control system.

This means that the whole system can be adjusted to suit a different product simply by entering an article number:
- The scale creates the required quantity through the weight.
- The packaging machine supplies the required bag size with the ideal sealing temperature.
- The TT printer or label dispenser applies the appropriate label to the bag or box.
- The PC control comprises a statistics program with average calculation.

All product data can be stored real-time or even printed.

Connection to existing operating data systems are optional.

Modern and progressive . . .

All K&K weighing systems are designed, constructed and assembled according to the latest technical criteria.

Our construction is based on modern CAD systems with 3D software. This enables clear and transparent visualization of a wide range of machines and systems. With that we can plastically visualize the complete machine in the planning phase to our customers.

Individual details up to motion sequences of single components can be visualized, simulated and optimized on the screen.

Technical drawings are available in all common formats.