

## Project example Combi Pack



A leading pharmaceutical manufacturer packages its latest weight loss product in a user-friendly kit. The box, comprising an upper and lower section, contains a deep-drawn fitment which clearly positions all the kit components. Packaged instructions for use, a booklet, a product shuttle to accommodate the day's dose and the plastic bottle with screw seal which contains the product itself – the sugar-coated tablets. While due consideration had to be paid to the pharmaceutical-compliant design of the packaging line, particularly stringent demands were also made in this instance to the appearance of the sales unit.

Alongside depalletizing of the top and bottom section, tray insertion and filling, this remit meant that labelling, coding and packaging in shrink foil were also an integral part of the IPS turnkey project. The twelve work stations finish with the end packaging stage including palletizing and pallet securing – automated by IPS throughout. Up to 100 kits are assembled every minute, and format changes are completed in just ten minutes. This is how easy packaging can be with IPS.

This apparent simplicity hides a highly complex engineering achievement: Individual functions are broken down according to a logical sequence; control functions, data generation and processing are networked and precisely coordinated, ensuring that a stable and perfected packaging process is guaranteed continuously in daily operation.

The excellence of this packaging project only truly comes to light in the small details. For instance: When the user opens the packaging for

the first time, the inscription on the plastic bottle should be immediately legible. To ensure this is the case, the container is turned by two rollers before being inserted until the optical control system has detected correct positioning of the inscription. The machine's control system then stops the rollers. The robot arms are now released to engage the container and insert it, correctly aligned, into the tray. IPS at work.

1.



Product shuttles pre-sorted by a hopper and two centrifugal conveyors (supplier IRA) are precisely aligned and placed in the kit packaging by means of a transmitted light scanner and Schubert TLM-F44 robots.

2.

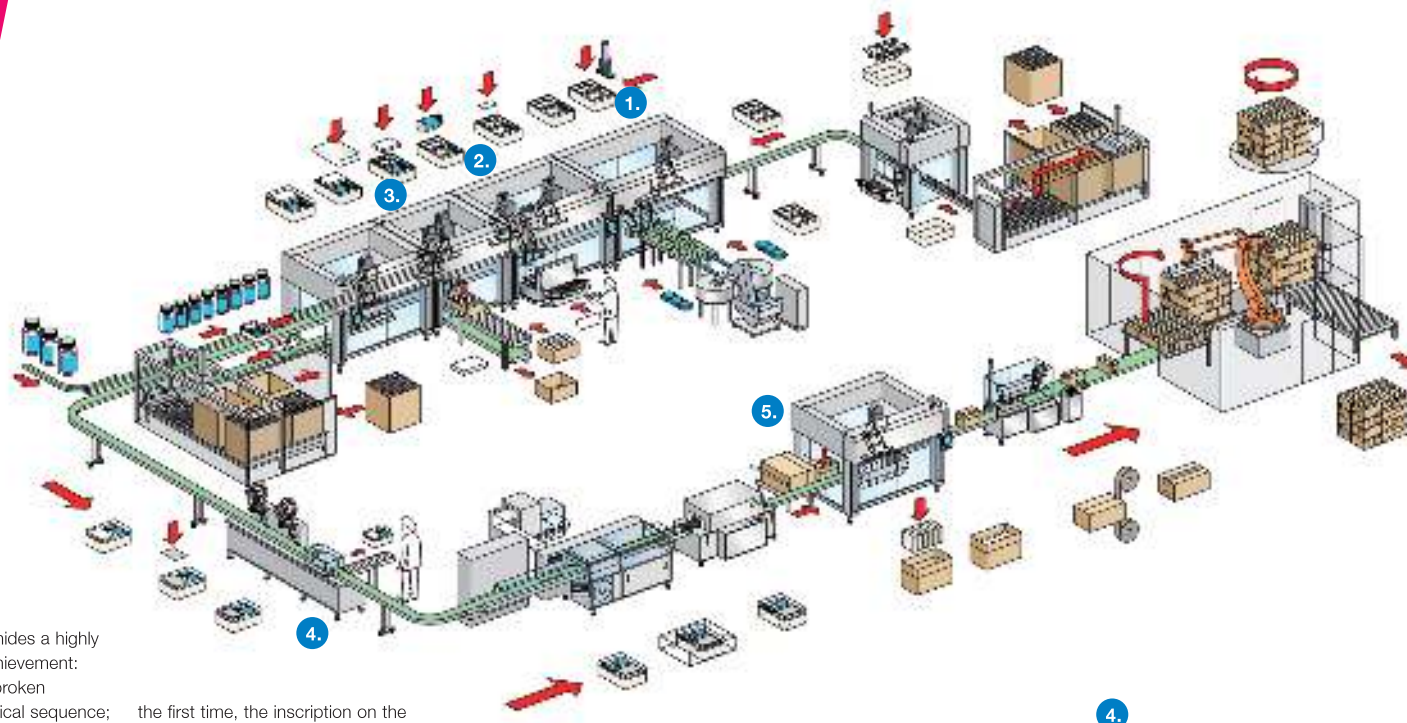


The filled and labelled bottles are grouped, and fed into the line with the rotary position aligned according to the label. They are then reliably inserted into the relevant fitments in groups of four products each. How? With the 'fantastic system components' from Schubert.

3.



The booklets are delivered in folding boxes and unloaded by two Schubert TLM-F2 robots, buffered and deposited, precisely positioned, in four containers at a time. The buffer storage facility allows folding box changeover without loss of performance. The Schubert vacuum transport system (VTS) permits product transport without driving flights and lateral guides.



Kugler-Womako labellers position the top and bottom labels. The top label acts at the same time as a "hinge" for opening and shutting the kit.



The shrink-wrapped units (Hugo Beck) are grouped and inserted in the previously erected folding box by a Schubert TLM-F2 robot.