Robotics

Product Handling and Case Packing



- Complete range of robot loading arms to meet all speed/ payload/layout requirements
- Simplification of product collation for improved access as well as greater speed/ease in format changeovers
- Customized, lightweight gripping tooling
- Flexibility and versatility of the robot concept



Product handling

Pre-collation / batch forming



Product flow management



Lightweight tooling



Product assortment



- Batch preparation prior to case packing /shrink-wrapping
- Unstable but stackable products collated in a forming frame
- Products oriented according to configuration and display requirements
- Handling of individual or multiple products
- Continuous flow distribution between several gripping arms (from one to x number of connected plug & play robots) with no accumulation
- Machine operation by standard software controlling a wide variety of algorithms to permanently optimize flow management
- Machine start-up, run-out...
- Batch collation, case loading, assortment
- Degraded modes for production continuity if an incident occurs
- Interfacing with detection systems (sensor, 2D vision, 3D scanner, etc.)
- 30% reduction on average in relation to traditional gripping heads
- Association of composite materials (carbon, aluminum in a honeycomb structure)
- Agglomerated polymers by 3D printing
- Various types of gripping tooling to preserve products: membranes, suction cups, grippers
- Optimization of the choice of loading arms, saving in energy
- Protection of tooling by "intelligent" head safety mechanism, depending on the application
- Forming of mixed product batches
- Directly in the robot tooling
- Robotic preparation upstream from the case packer depending on the speed and number of lanes/ product references
- Flexible solution for format changeovers
- All configurations can be parameterized on the Human Machine Interface (HMI)

Case packing

Complete range of loading arms



Flexible products



Automatic format changeovers



HMI and additional operations



- Loading arms from 2 to 6 axes
- Optimization of the choice of arm depending on speed, payload and layout criteria
- Compliance with manufacturer guidelines for increased life span
- Smooth and accurate movements with optimum product protection
- Controlled presentation of products in the transit packaging
- Perfectly adapted to bags, stand-up pouches (Doypacks®), flowpacks, etc.
- Handling of products upright or lying flat
- Precise movements to protect products whatever their contents (liquid, solid, pasty, viscous) and features (cap, straw, etc.)
- Modular design allowing unit to be scaled in accordance with the required speed and product contents/weight

- Easy-to-dismantle gripping tooling (as a whole or grippers only)
- Robot capable of changing automatically
- its gripping tooling
- other tooling on the machine (loading funnel, comb, etc.) certain adjustments

Advanced PC-based Human Machine Interface allowing natural interaction between the operator, the robots and other peripheral elements, without expertise in robotics

- Trajectory configuration, step by step modes, help views centralized on the HMI
- Optional management of layer card and product wedge insertion
- Product quality control by 2D or 3D vision system and Track & Trace function for serialization



First in line

In a complex industry where know-how is everything, Gebo Cermex is formed from the union of two strong brands: Gebo & Cermex, gathering packaging line engineering experience across a range of market segments from beverages and food to pharmaceuticals, via home and personal care.

For over half a century, our experts have improved the performance of production and packaging lines in some of the most demanding industries.

Today more than 37,000 equipment & systems installations bear our signature. We add value to our customers' business in four dimensions, from equipment design and manufacturing to line engineering, services and asset performance.

Gebo Cermex, headquartered in Strasbourg, France is a people-centric organization with 1800 employees and over 20 commercial & manufacturing sites in all major regions around the world.

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