

Flexible Layer Depalletiser



To optimise the order picking processes within the retail industry CSi has developed an extremely versatile Layer Depalletising System. The Flexible Layer Depalletiser can handle a wide variety of products, regardless of their size, shape, layer pattern or weight. The fundamental principle of the machine is that products are supported from beneath during the depalletising process, which ensures ultra reliable handling compared to machines that use vacuum grippers. This eliminates the problems of high air consumption and noise. The Flexible Layer Depalletiser consists of a pallet handling system with a robot layer picker, incorporating a versatile layer unscrambling table, used to single line and orientate cartons on their way to the sortation process. The CSi Flexible Layer Depalletiser for fast, ergonomic and quiet order picking of retail products such as cases, trays, shrinkwrap packs etc...



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Technical specifications

● Layer Depalletiser Applications

- **Fast batch picking within retail distribution linked to:**
 - High speed pack sorters with multiple outlets and manual palletising.
 - Intermediate pack buffer system for 100% sequenced automated or semi-automated palletising.
 - Limited amount of order assembly lines with automated palletising.
- **Generating multi-SKU pallets by depalletising uniform pallets and then re-palletising.**
- **For automatically converting Euro type pallets to Chep pallets and vice versa.**

● Features

By supporting products from beneath, carefully moving the gripper under the packs and carrying the packs directly onto a conveyor, the depalletiser can handle products that are difficult to lift with conventional vacuum systems. In combination with our uniquely designed unscrambling tables, almost any product can be depalletised and single lined automatically.

- Capable of handling a wide variety of products including open-top trays (with loose lids)
- Very short installation and commissioning time
- Easy operator access
- Compact design
- Products are fully supported during the depalletising process
- No air consumption
- Low noise level

● Technical Data

Product types	- trays with foil wrap - trays without foil wrap - open-top cartons - trays with lids - cluster packs in foil - cases
Product dimensions (LxWxH)	: Min. 200 x 150 x 80 mm Max. 600 x 400 x 400 mm
Product weight	: 0.5 - 20 kg
Layer weight	: 225 kg
Capacity	: up to 3 layers/min
Pallet specifications	: Euro, Chep and US pallets
Max. stacking height	: 2.200 mm including pallet



Building multi-SKU pallets



Layer Depalletising



Layer Unscrambling



Single Liner



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