

A modular designed sweep palletiser which can be adapted for both semi and fully automatic operation. The loading height can be at high or low level to allow connection to any existing conveyors.

Packs are collated on an infeed conveyor, row by row, before being transferred to the loading plate by a sweep arm (pneumatic pusher). When a layer is complete, the loading plate seeks the correct level and moves out above the pallet for adjustment to the correct level. Whilst the loading plate retracts, the second sweep arm holds a layer placing it on top of a pallet.

All movements of the loading table are motor driven. The palletiser can be equipped with pallet magazine, pallet outfeed conveyors and a layer sheet dispenser. The machine is easy to fit into an existing factory layout as the pallet magazine, infeed and outfeed conveyors can be placed in several different positions.

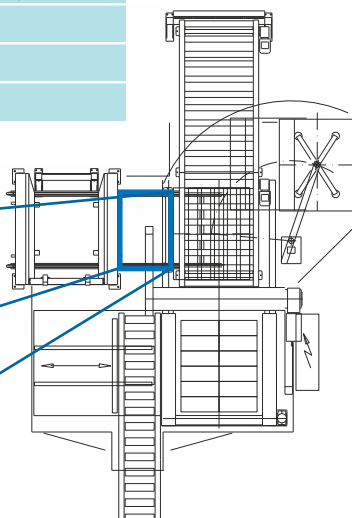


- stable frame
- modular design for high flexibility
- high efficiency level
- quick and safe when changing formats



Technical specifications

| | |
|-------------------------|---|
| Speed: | up to 3 layers per minute, depending on layer pattern |
| Control system: | PLC |
| Products handled: | cases, trays, cartons etc., up to 400 mm high |
| Maximum loading height: | 2400 mm incl. pallet |



740 series
sweep palletiser

Trepko

Another Trepko proposal of a palletising technology is a gantry robot system. The Trepko gantry robot system is of modular design and is therefore suitable for many different applications including mixed and standard product palletising, as well as depalletising.

The machine is capable of moving along the x, y and z axis and the robot head turns through 270 degrees to form different layer patterns according to the programme selected from the operator panel.

Teach-in function to form new patterns. All movements can be controlled by servo motors via the PLC.

The machine can be fitted with different types of lifting tools including vacuum suction cups, grip/clamp and or lifting plates and most products can therefore be handled.



The gantry robot is flexible and can be equipped with automatic pallet handling. In addition to this the machine is easy to fit into an existing factory layout as the pallet magazine and Infeed/Outfeed conveyors can be placed in several different positions.



Single Gantry Palletiser



Double Gantry Palletiser



Technical specifications

| | |
|------------------------------|---|
| Maximum item weight: | the maximum item weight is typically 25kg but depends on the item type and quality, the lifting method used, speed etc. |
| Capacity: | up to 12 cycles per minute depending on the pallet pattern, the size, weight and quality of the items |
| Control system: | S7-300 Siemens PLC |
| Air consumption: | at 6 Bar up to 350 NI/min |
| Loading height incl. pallet: | up to 2100mm with vacuum head |
| Pallet sizes: | all common sizes |
| Typical products handled: | cases, shrink wrapped trays, cartons |