

# C4000i Gantry robot



In modern production processes emphasis is being placed on flexibility, reliability, ease of operation and fast recovery procedures.

Leading producers also demand the tracking and tracing of products to guarantee product quality to their client's satisfaction.

To act on the latest packaging and logistical trends CSi has developed a new series of palletisers, the C4000i. These new generation palletisers are specifically designed for end-of-line and multi-load palletising. With its mechatronic design and servo controlled movements an optimum balance between speed and gentle product handling is easily achieved.



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# Technical Specifications

## ● Applications

The palletiser C4000i is designed for handling an extensive range of products and packaging materials. With our specially designed grippers different product types can be handled without changeover times and the product changeover follows automatically. To stabilize the layers intermediate sheets can be placed automatically.

Product types	: cartons, totes, bins, foil packages, shrink packages, trays, displays, etc.
Min. product dimensions	: 100 x 90 x 40 mm. (LxWxH)
Max. product dimensions	: 1200 x 1000 x 600 mm. (LxWxH)
Product weight	: 0,5 – 150 kg.
Layer weight incl. gripper	: max. 300 kg.
Pallet types	: Chep, Euro, 2 x 1/2 Euro, 4 x 1/4 Euro, Industry, etc.
Max. pallet dimensions	: 1500 x 1200 mm.
Max. pallet load dimensions	: 1500 x 1200 x 2700 mm. (LxWxH)
Max. pallet weight	: 1500 kg.

## ● CSI – Machine Controls Concept

The mechatronic modular design offers a high level of system reliability and maximum flexibility. For the periphery integrated in the controls the IPC offers real time multi tasking functionality. A standard touch screen is provided to facilitate ease of operation and fast recovery procedures.

Controller	: Beckhoff IPC PIII+
Soft PLC	: TwinCAT IEC 61131-3
HMI	: Eagle 2000+ Control
Display	: 12" touch screen
Operating system	: Microsoft Windows 2000 or NT
Network	: Ethernet, all common network connections
Fieldbus	: Profibus
Servo drives	: SEW Movidrive
Inverters	: SEW Movimot

## ● General data

Main voltage	: 230/400 V, 50 Hz, + N + PE
Control voltage	: 24 VDC
Installed power	: 12-45 kVA
Power consumption	: 8 kVA
Air consumption	: 50 NI/min.

## ● Options and configurations

### Eagle 2000 + Editor

With this Windows based tool, new stacking patterns can be created online and transmitted to the controls.

### Eagle 2000 + Service

The diagnostic function enables maintenance activities and delivers management information.

### Integration of periphery equipment

Modular integration of conveyors, pallet destacker/magazine with each individual drive/module:

- frequency controller (SEW Movimot)
- lockable disconnection
- feedback of disconnection
- feedback of thermal overload

## ● Speed

Max. speed:  
in X-direction: 4,0 m/s  
in Y- and Z-direction: 3,0 m/s

Max. acceleration:  
in all directions: 8,5 m/s<sup>2</sup>

## ● Capacity

Product in gripper	1*	2	3	4	5
Throughput in cases/minute	14	24	30	36	40

\*) With a movement range of 2000 mm horizontal and 600 mm vertical: 840 cycles/hour.



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