Technical data and specifications

- **Rotational radius 400°**
- **Minimal maintenance**
- **Sturdy construction with steel body and aluminium arms**
- **Servomotors with precision gears**
- **Speed up to 80 m/minute with full interpolation of up to 6 axes**

Operation and maintenance

The operating system is based on an IEC61131-3 PLC.

The system also supports FTP (file transfer protocol) enabling online transfer of data and logfiles.

Capacity

Approximately 14 cycles per minute. The robot can transfer one, two or more items at a time, depending on grouping/pallet pattern, size, weight and quality, and the type and dimensions of the vacuum hand used.

Maximum item weight

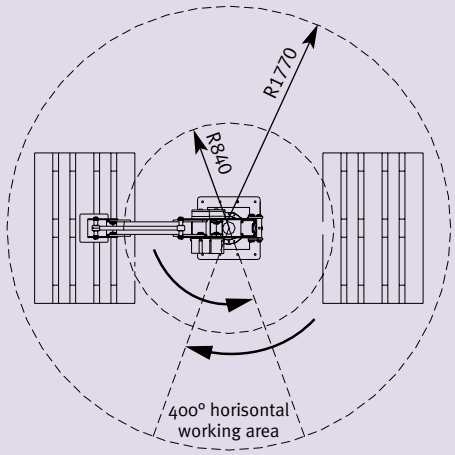
The maximum item weight depends on type and quality of the item, type of vacuum/gripper hand used etc. Tests will normally be necessary to find the maximum item weight for a given situation. The maximum item weight is up to 36 kg.

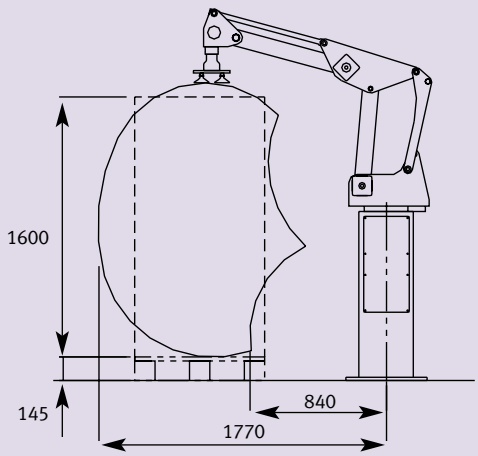
Optional equipment

- Mechanical hands
- Vacuum hands
- Magnetic hands
- Quick release couplings for hands
- ISDN modem 3Com
- AXIS network camera for monitoring and remote-support
- CAPE® and CODE BOX® optimisation software

RoboKid

Communication:	Modicon Modbus Ethernet TCP/IP CAN Open (extra) Profibus DP (extra)
User interface/control panel:	IPC/touchscreen
Axes of rotation:	2, 3, 4, 5 or 6
Lifting capacity:	Up to 36 kg
Working height:	1,8 m (depending on pillar height)
Dynamic repeat cycle:	0.3 mm
Maximum speed:	1,3 m/second
Digital signals:	Depending on use
Analogue signals:	Depending on use
Hardware:	IPC
Operating system:	Windows NT4/2000
Programming of robot:	ISO G-codes (like CNC) CAPE®. CODE BOX® PLC
Programming other equipment:	Soft PLC according to IEC61131-3
Safety fencing:	Depending on use
Electric supply:	3 x 400 V or 3 x 230 V + PE Consumption 3 kW Prefuse 16 A
Weight:	215 kg (excluding pillar)
Shipping dimensions:	1600 mm x 850 mm x 2050 mm (excluding pillar)





As standard, the robot is supplied in the following colours: RAL 2002 red, RAL 9005 black.
The robot is also available in stainless steel.

Subject to alteration.

SOCO SYSTEM

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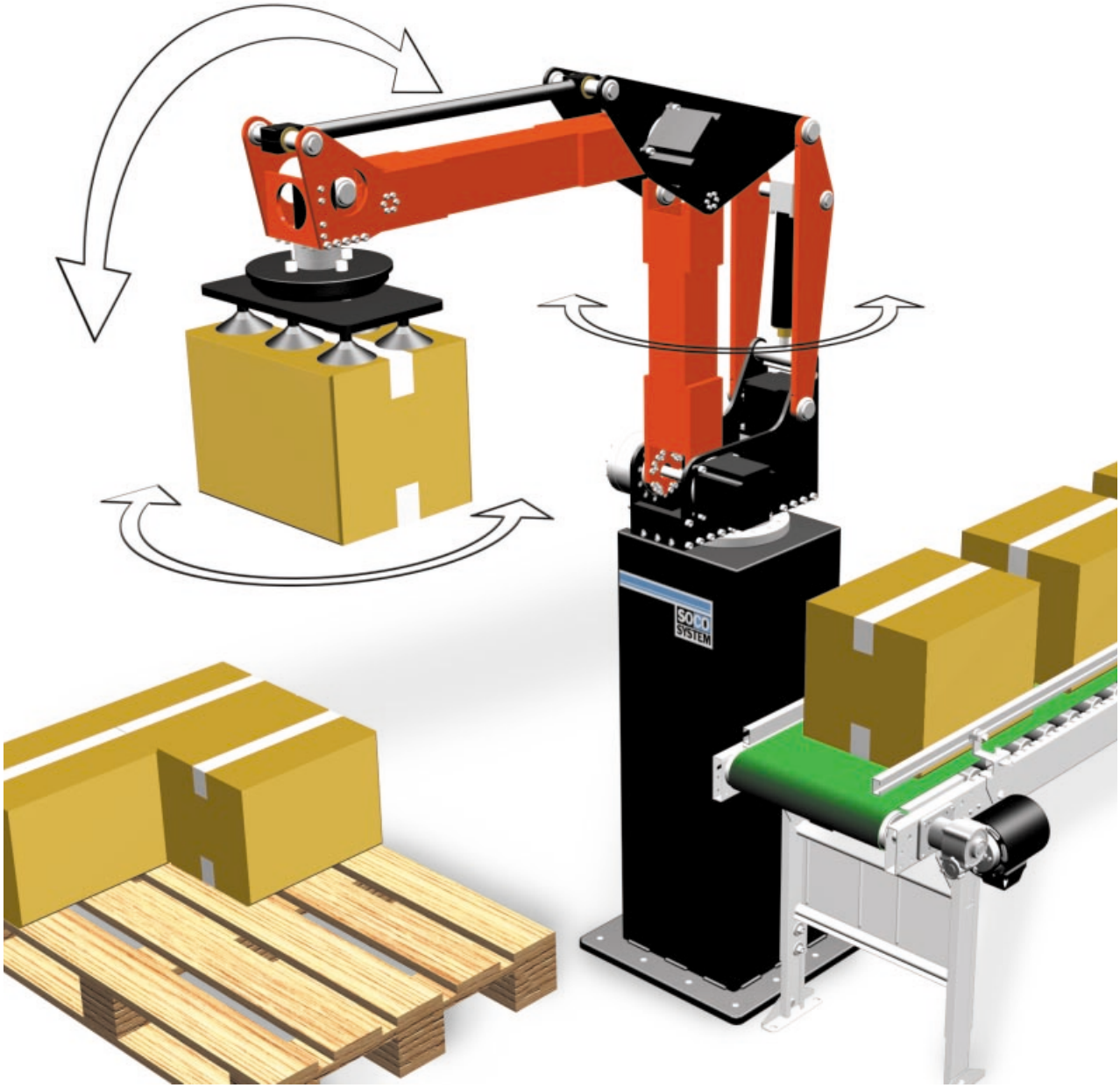
EDB NO.: 9107212001 COMING / 1 . 9521 . 2.00.1

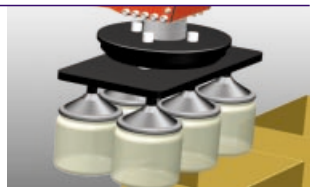
Compact free arm robot
with numerous possibilities



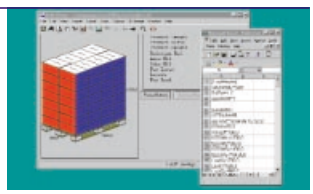
RoboKid

Palletising
Depalletising
Placing
Packing
Picking
Grouping
Positioning

There are a number of different gripper hands for the robot. The gripper hands can work in 2-6 axes, dependent on the robot version. The gripper hands are available with quick release coupling.

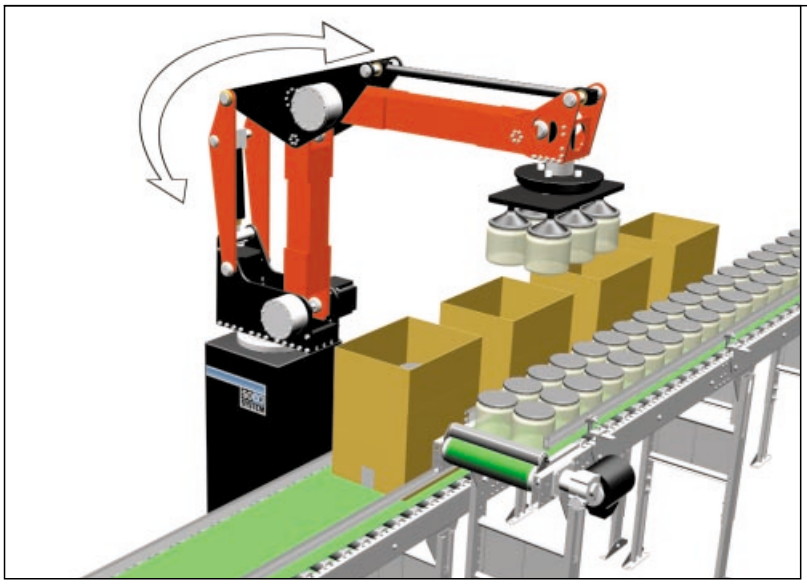


The robot is easy to programme. CAPE® and CODE BOX® optimisation software creates the necessary coordinates, and the operator can operate the system and follow the process by touchscreen and open user interface.



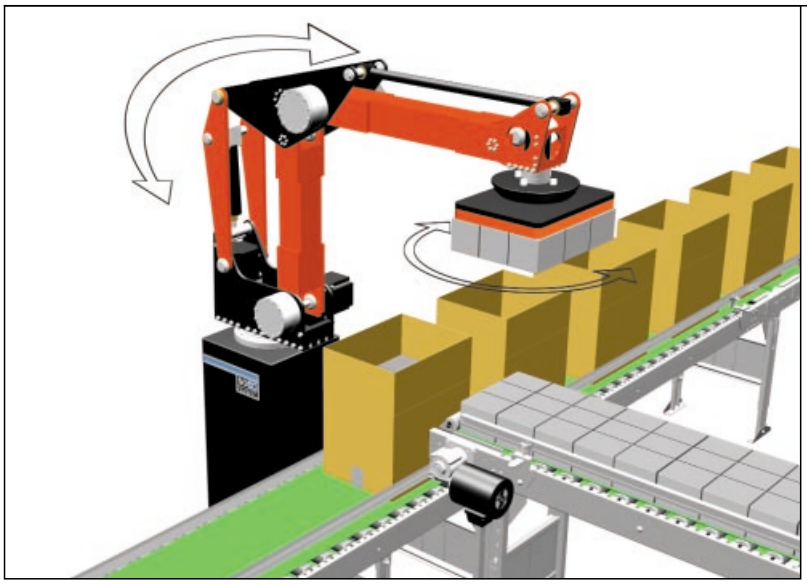
SOCO SYSTEM

Application examples



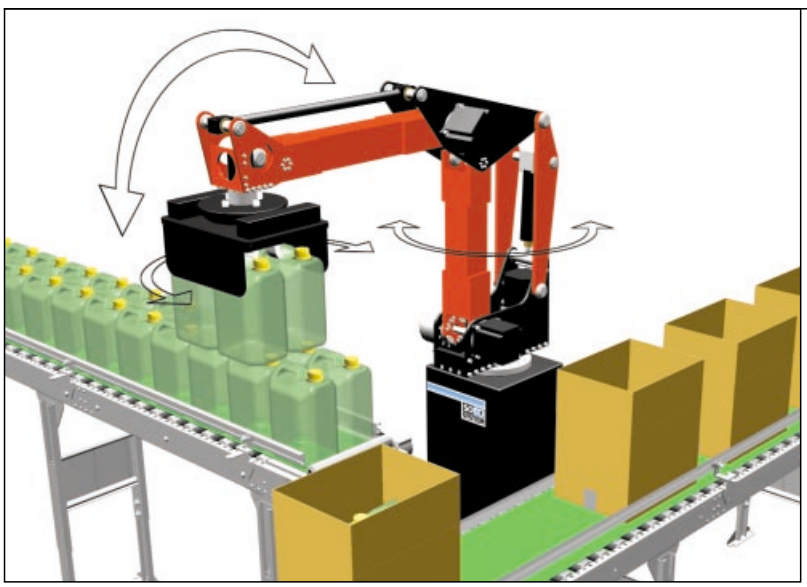
Placing with 2-axis version

The most simple ”pick and place” function suitable for numerous jobs of placing products in outer shipping units, e.g., such as trays, cartons or plastic boxes.



Positioning and placing with 3-axis version

The 3-axis version makes it possible to, e.g., turn/cross products in layers.



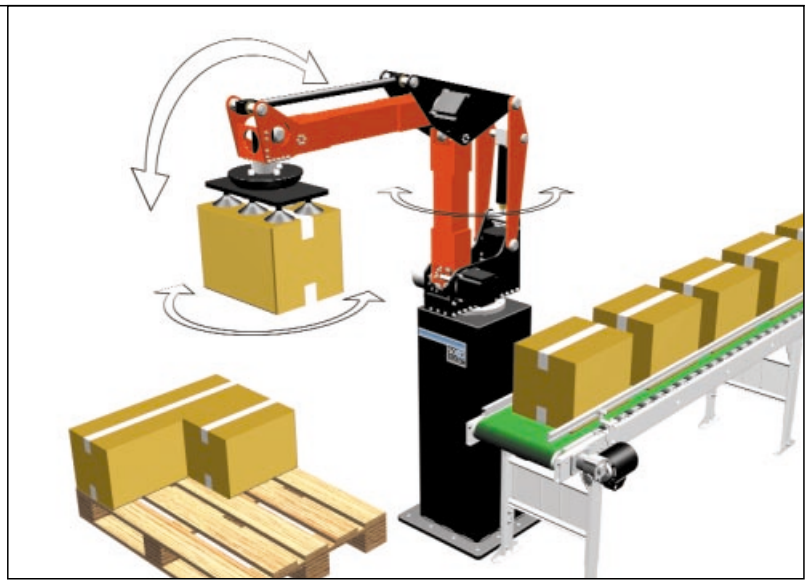
Positioning and placing with 4-, 5- or 6-axis versions

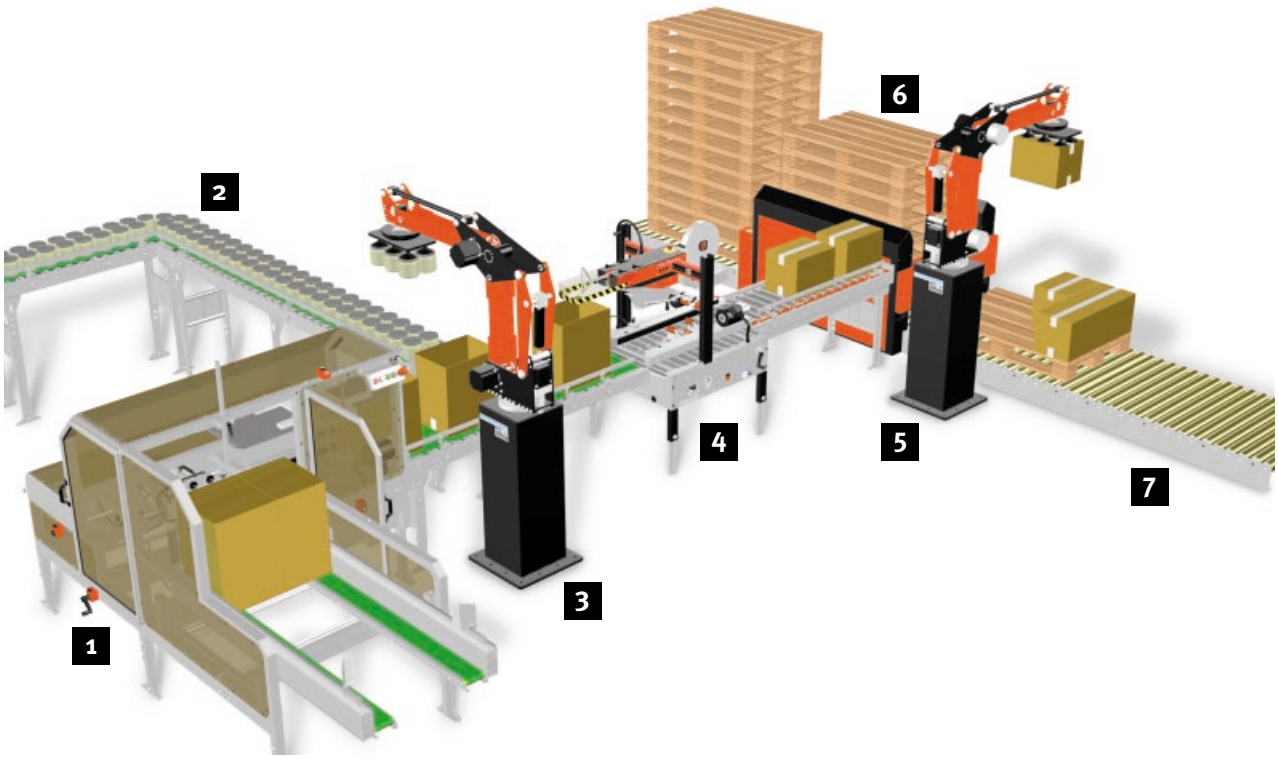
Movement in 4, 5 or 6 axes offers countless possibilities to solve positioning and placing applications.

Application examples

Palletising with 4-axis version

A 4-axis robot offers optimum solutions for palletising.





Carton erection, placing, sealing, and palletising

The robot is easy to integrate into fully automatic packaging lines, and its IPC programme can be expanded to control peripheral equipment.

The fully automatic packaging line consists of modules from SOCO SYSTEMs standard programme:

1 *Carton erector*
2 *Belt conveyor*
3 *Robot with 2 axes*
4 *Carton sealer*
5 *Robot with 4 axes*
6 *Pallet magazine*
7 *Driven pallet roller conveyor*