

# Robotic controller CMXR-C2

FESTO



**The convenience of a robotic controller combined with the flexibility of a PLC.** The top of the CMXR series combines the advantages of two worlds on a single platform, thus extending the range of applications the CMXR-C2 can fulfil, i.e. right up to the complex handling of moving objects on several conveyor systems.

#### **More simple than ever**

The integrated CoDeSys PLC, equipped with various interfaces, facilitates individual integration in higher-order controllers or the linking of peripheral devices, such as vision systems. This means you won't be without the convenience of modern robotic control. On the contrary. Motion programs can even be optimised via the teach pendant CDSA.

#### **More reliable than ever**

The intelligent dynamic limiter monitors the limit values of the integrated motors and drive mechanics. The result is 100% path accuracy at optimum cycle times.

#### **More versatile than ever**

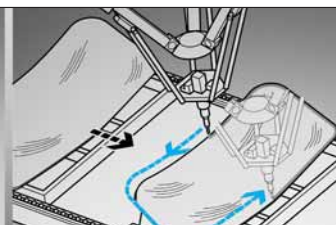
In addition to tracking moving objects and directly linked vision systems, the CMXR-C2 also defines speed-independent switching points on the path. That's a real plus for process reliability and quality, for example in gluing or sealing applications for instance.



Flexible operation



Coordinate transformation



Complex applications

129.3.PSI →

Product Short Information

# Robotic controller CMXR-C2



## Product features

- Robot control with powerful motion control core
- Integrated coordinate transformations, e.g. for Cartesian and tripod kinematics
- Modular control system with a number of extension modules from the CECX series, e.g. digital and analogue I/O
- Interfaces adapted to external systems
- Integrated CoDeSys PLC
- Optional teach pendant CDSA with 2 channel safety switches and emergency stop

- Switching points on the path, e.g. for gluing
- Path speed output
- The intelligent dynamic limiter continuously monitors the physical axis limits and ensures path accuracy
- Definition of tool centre points (TCP) in the space
- Tool coordinate system in the tool centre point (TCP) for easy teaching
- Reduced speed in manual operation
- Repositioning of the kinematics after program interrupt.

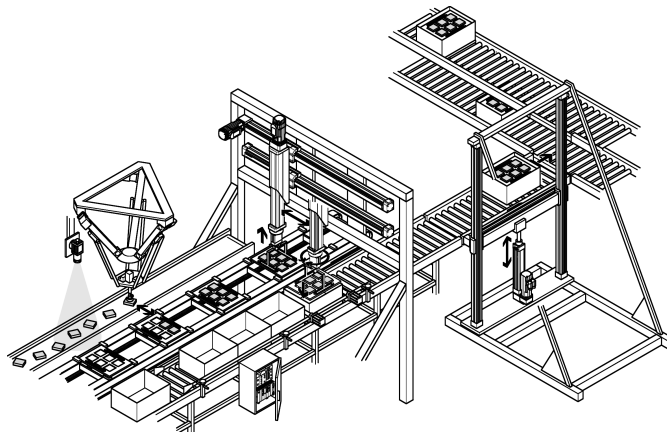
## Powerful motion control core

- Synchronous point-to-point (PTP) motion, Cartesian linear and circular interpolations
- Optional wrist axes for tool orientation
- Smooth position transitions for gentle mechanical system motion

- Individual speed, acceleration and jerk programming
- Different acceleration ramps
- Constant path speed with monitoring

## Application examples

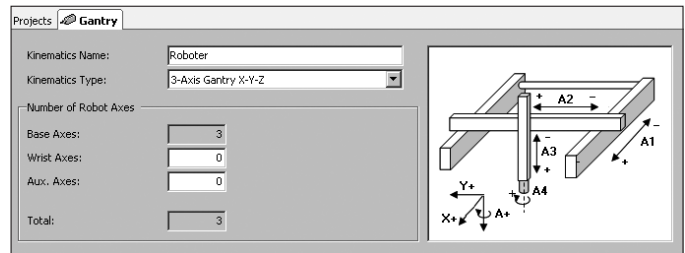
- Tripod with tracking and link to vision system
- Simple handling with a Cartesian linear gantry
- Tracking of moving objects
- Gluing, coating, cutting



## Efficient engineering

- Intuitive configuration with the Festo Configuration Tool (FCT) helps produce significant cost savings.

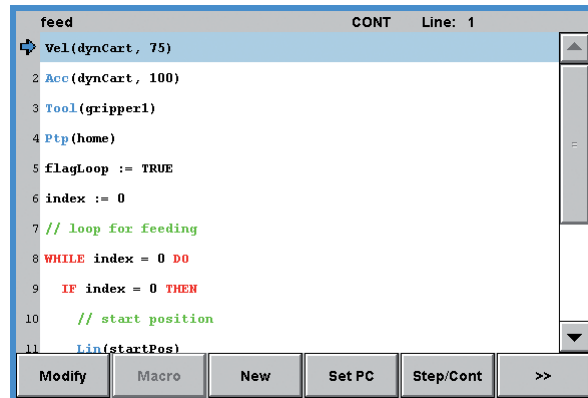
- Easy storage of all types of project data, e.g. configuration, movement and PLC program.



## Transparent programming

- Easy to understand textual programming using the Festo Teach Language (FTL)
- Comprehensive command set for movements, dynamic response and program control

- Changes can be implemented straight away, compiling is not necessary
- Teach-in functions can be used in combination with the teach pendant



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