

Robotics

CP – The simple solution with high functionality

Perfectly suited for dynamic machine loading and palletizing operations with high payloads



Advantageous axis kinematics – Less space required

Approaching positions from above is offering a unique benefit to the customer. With a long principal horizontal axis a large work area can be addressed with no floor intrusions and a small footprint. The cantilever axis enables to load machines from the side or challenging palletizing operations can be solved easily.

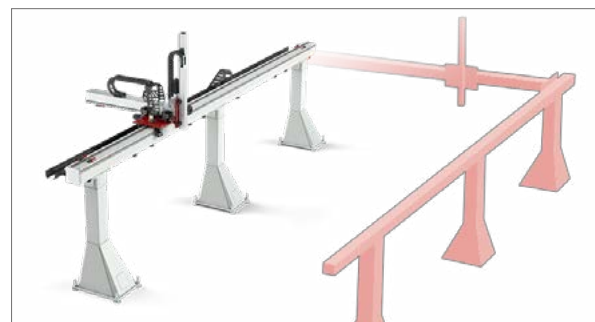
A 6-axis robot that is common in the industry covers a significantly smaller working area in comparison, and the axis kinematics can limit its approach.

Essential advantages when planning systems

Compared to 3-axis gantries with movable bridges and two X axis beams, the CP functions without a second supporting beam and therefore needs less space.



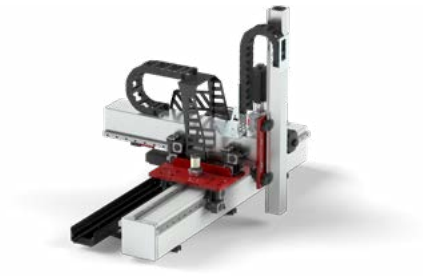
Loading a grinding machine



Comparison with Cartesian linear robot

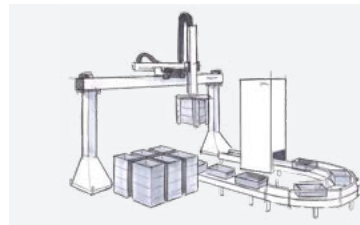
Customer benefits:

- Cantilever axis gives a 3D working envelope
- Costs are optimized by the simple design
- Space savings thanks to the single main axis which supports the short cantilever axis
- High-performance drives increase the production capacity
- Modular product portfolio enables quick and accurate configurations according to customer requests.



Payload	50 to 500 kg
Work area	Strokes are specified for each application: X: 100 m Y: 0.6 to 2.5 m Z: 0.6 to 2.5 m
Repeatability	±0.02 mm for entire payload spectrum
Moving dynamics	Speed: Up to 3 m/s Acceleration: Up to 4 m/s ²
Option packages	Telescopic axis available

Applications:



The CP is a simple 3-axis linear robot solution that can be customized for a variety of applications:

- Loading and unloading machines
- Separating, palletizing, stacking workpieces
- General handling and transport of workpieces

Industries:



General machine industry



Logistics



Machine tool industry



Plastics industry



Automotive industry



Electronic industry

Güdel Group

The Güdel Group is a manufacturer of high-precision machine components and provider of sophisticated automation solutions. Its spectrum of products ranges from linear guideways, racks, pinions and drives right through to linear axes and gantry robots. Güdel assembles its products into systems with a high degree of control intelligence and complete plant installations, which

can be used in the automotive, tire, metal, rail, intra-logistics, pharmaceutical, renewable energy, wood, and aerospace industries. The Güdel Group has a workforce of approximately 1,200 employees worldwide in over 30 locations. The Güdel Group has its headquarters in Switzerland.