

Areaportal/Gantryrobots

NC-100FP

FLG
AUTOMATION

- ✓ Used and proven in a variety of palletizing applications
- ✓ High payloads / handling weights
- ✓ Modular construction system
- ✓ Easy and flexible mounting
- ✓ Maintenance and low-noise guide elements
- ✓ Long Lifetime



The System

NC-100FP

The flexible axle modular construction system of FLG allows the individual combination of the standardized linear units to complete gantry robots. By combining the NC-100 base component with our vertical axis NC-80VS you get a sturdy surface-portal for your high standards in production. With the gantry robot NC 100FP tasks such as palletizing, reacting, stacking, loading, etc. can be cost-effective, quick and easy automated.

Advantages

- High payload, with quiet running, high dynamics
- Backlash-free and precise positioning by double linear guides and opposing second guide
- High torsional rigidity and flexural strength
- Low maintenance, optional: center, freely accessible site for the lubrication of the carriages
- In the profile sliding switch targets for safe shutdown and robust and damped end stops
- Prepared mounting holes for attaching the limit switch, whether electrical or mechanical, require no additional design effort
- Standard fasteners
- Easy construction
- Rugged, compact and low-vibration overall structure

Areas of use

Equipped with different mechanical gripping tools and rotary module, the line portal NC 100FP can complete the following tasks economically:

- Palletizing, feeding, removal, loading, loading
- stacking, order picking, warehousing
- loading of machine tools and injection molding machines
- Can be used in all industries

Drive options / motor positions

With application-specific drive solutions we provide for the highly dynamic operation of our portals. On request, the design of the motors and gears is done by our technical department.

The power sets consist of:

- Brushless AC servo motors
- Digital servo controller
- Motor and resolver
- Parameter list

Basic version

In the basic version you will get the individual linear modules with the appropriate mounting hardware for assembly.

Additional Services

- design and manufacture of steel frames incl. suitable adjustments
- development and production of application-specific gripping applications

Technical Specifications

Travel speed:	max. 5 m / s
Acceleration:	max. 5 m / s ²
Repeatability:	+ 0.2 mm
Z stroke:	2,000 mm
Dimension Z:	Basic measurement H + 2 x Stroke (Z) + 632
X stroke:	5,000 mm
Dimension X:	X travel + 935 mm
Y stroke:	5,000 mm
Dimension Y	Y travel + 855 mm
Sustainability Z axis:	90 kg

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