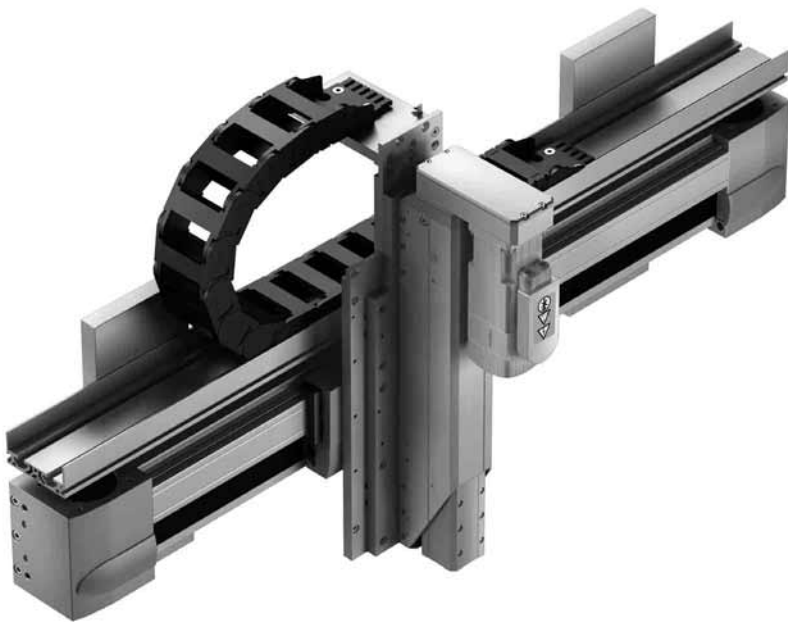




Linear gantries



Movements in 2D: a linear gantry consists of a gantry axis and a yoke drive.

- High mechanical rigidity and sturdy design
- Pneumatic and electrical components – freely combinable
- As electrical solution – variable positioning/any desired intermediate positions

Range of application:

- Ideal for long gantry strokes
- Often used for feeding applications
- Workpiece masses up to 5 kg (effective load up to 10 kg)
- Long gantry strokes up to 3 m and heavy loads up to 10 kg
- High requirements on system resistance to torsion

Example: construction materials industry

Handling, palletising and packing of ceramic tiles



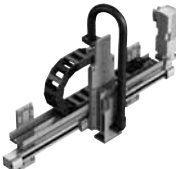



Requirements

- High dynamic response
- Gentle acceleration and braking
- Jerk-free movement
- Good positioning flexibility

Solution

- Linear gantry with toothed belt axes and cantilever axis
- Complete solution, including vacuum gripper



Type	Important characteristics	Axis design	Effective load	Max. effective strokes	Components
 <ul style="list-style-type: none"> • Linear gantry as mono axis • Free movement of the Z-axis in the vertical plane (2D) 	<ul style="list-style-type: none"> • High process reliability thanks to installation integration • Pneumatic and electric drives (with freely programmable positions) • Repetition-accurate, centralised direct axis connections • Mini slide on the Z-axis for maximum precision 	Y: Gantry axes Z: Slide Cantilever axis	Mono: 0 to 6 kg	Y: Up to 5000 mm Z: Up to 300 mm	Y: DGC/EGC Z: DGSL EGSA
 <ul style="list-style-type: none"> • See above 	<ul style="list-style-type: none"> • See above, points 1–3 • Pneumatic cantilever axis on the Z-axis with high repetition accuracy, high dynamic response and intermediate positions 	Y: Gantry axes Z: Handling axis	Mono: 0 to 5 kg	Y: Up to 5000 mm Z: Up to 200 mm	Y: DGC/EGC Z: HMPL
 <ul style="list-style-type: none"> • See above 	<ul style="list-style-type: none"> • See above, points 1–3 • Pneumatic handling axis on the Z-axis with high rigidity and intermediate positions 	Y: Gantry axes Z: Handling axis	Mono: 0 to 10 kg*	Y: Up to 5000 mm Z: Up to 400 mm	Y: DGC/EGC Z: HMP
 <ul style="list-style-type: none"> • Linear gantry as mono or duo axis • Free movement of the Z-axis in the vertical plane (2D) 	<ul style="list-style-type: none"> • See above, points 1–3 • Electric cantilever axis on the Z-axis for large strokes, high dynamic response and low moving dead weight 	Y: Gantry axes Z: Cantilever axis	Mono: 0 to 15 kg Duo: 0 ... 25 kg	Y: Up to 5000 mm Z: Up to 900 mm	Y: DGC/EGC Z: DGEA

Higher effective loads of up to 50 kg on request

* With the pneumatic drive DGC, can be used as duo axis

