

| PRODUCTS

Components

Robotics

| INDUSTRIAL AUTOMATION

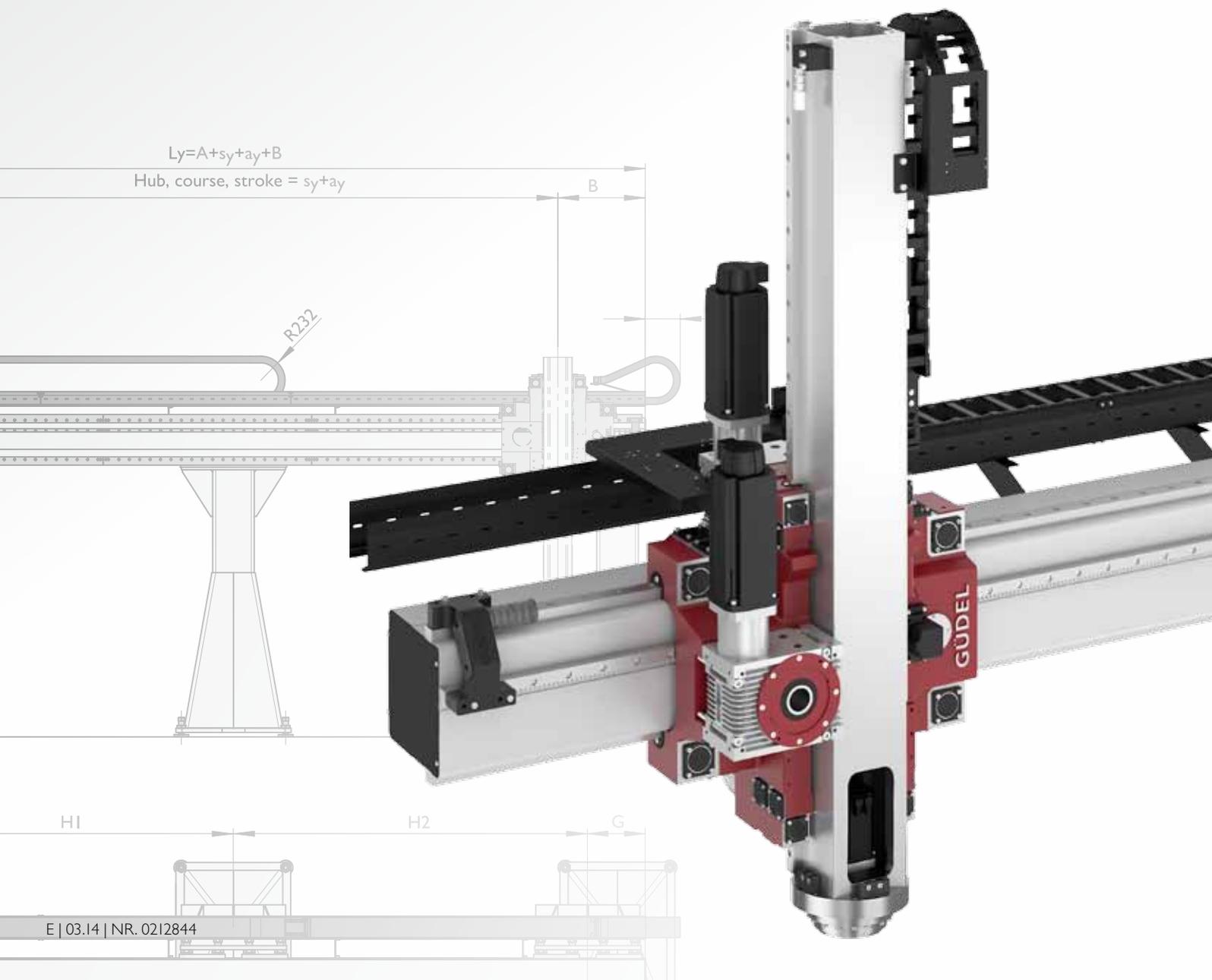
Factory Automation

Press Automation

Renewable Energies

Intralogistics

Güdel's linear modules for gantry robots –  
the right solution for every requirement



Güdel's linear modules for gantry robots provide dynamism and efficiency for your manufacturing operations

## Güdel's expertise is in the development and manufacture of standardised linear modules for your automation systems

Our worldwide team of specialists works hand in hand with the client, enabling the targets to be achieved quickly and reliably. We plan extensively in order to meet the customer's exact requirements. As a service-orientated company, we form a comprehensive, long-term partnership with each client.

We develop and manufacture all the main components ourselves, so the customer can rest assured that everything is produced to the highest of standards. Since there are numerous application-specific options available, Güdel's linear modules are very versatile and can be easily integrated.

**we put the movement  
into your process**



We have our own worldwide sales and service network



Using our single- and multi-axis linear modules, we can readily provide all kinds of solutions that are dynamic, accurate and barely audible

Güdel's linear modules with rack-and-pinion drive are successfully employed in a wide range of industries:

**Single-, double- and triple-axis linear modules**  
The EP, ZP and FP linear modules have impressive versatility and provide long movement, large load capacity, great accuracy and good rigidity.



### Automotive

- Press automation
- Powertrain
- Machining cell
- Body welding

### Intralogistics

- Food & beverages
- Non-food

### Tire

- Green tire
- Finished tire
- Machinery

### Renewable energy

- Solar/photovoltaic
- Wind power

### Railway

- Machining cell
- Axle & wheel machining line
- Wheel-set assembly

### Aerospace

### Recycling

### Glassware

- Clean room

### Wood

### Composites

- Mould cleaning
- Production equipment

### Metalworking

- Bending
- Cutting

Our solutions are as wide-ranging as your requirements



C axis  
C-B axis  
C-B-A axis



Fail-safe holding brake with electromagnetic safety brake and monitor



H loader with two vertical axes on a coupled Y carriage

### Ancillary equipment and options

Our linear modules are available with various accessories and are readily extensible. Movements of 100 metres and more are possible. For more information, visit our website [www.gudel.com](http://www.gudel.com) or contact us direct. We'll be happy to provide full advisory services.



Güdel's single- and multi-axis linear modules	Güdel tracks, gears, toothed belts	GÜDEL track, gears, pinion, rack	Precision (repeatability)	Available sizes	Payload categories [N]	ATEX	Clean room ISO 8	Clean room ISO 5	Wireless	Full cover
Linear module with toothed belt MLB 1-3	●		± 0.05 mm	3	up to 100		●			
Single-axis linear module EP 1-7		●	± 0.02 mm	7	up to 31 500		●	●*	●	
Double-axis linear module ZP 1-7		●	± 0.02 mm	7	<b>new</b> up to 31 250		●	●*	●	
Triple-axis linear module FP 1-7		●	± 0.02 mm	7	up to 25 000		●	●*	●	
Triple-axis linear module CP 1-4		●	± 0.02 mm	5	up to 4000		●	●*	●	
Linear tracks for robots Trackmotion TMF 1-4		●	± 0.02 mm	4	static up to 50 000 with robot up to 30 000		●	●*	●	●
Linear tracks for robots TMO-E 1-4 TMO-W 1-4 TMO-C 1-4		●	± 0.02 mm	4	<b>new</b> static up to 50 000 with robot up to 25 000		●	●*	●	

\* on request

## Makes full use of the space available and is very easy to integrate

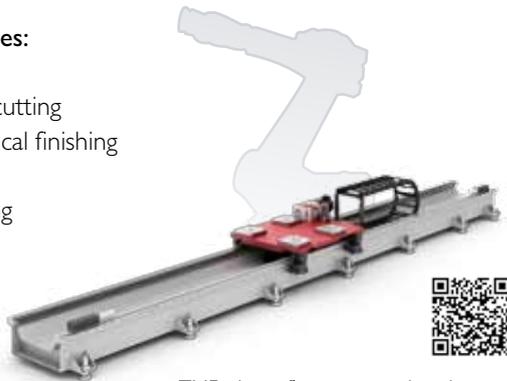
Güdel's modules can move loads weighing anywhere between a few kilos and several tons, depending on the application and the industry

### Linear track motion for robots

The TMF and TMO trackmotion series have a proven track record in logistics and in the aerospace and automotive industries. Because both series comprise a well-selected range of different sizes, we can always provide the right solution for any type of robot and for any application.

#### Typical uses:

- Welding
- Plasma cutting
- Mechanical finishing
- Casting
- Packaging



TMF: classic floor-mounted application



- TMO-C ceiling-mounted robot
- TMO-W wall-mounted robot
- TMO-E mounted in elevated position



### Triple-axis linear module

The cantilever linear modules of the CP series have extensive uses in various industries and applications. Because of their long travel, great accuracy and good rigidity, these linear modules meet a wide range of requirements in full.

#### Loading of:

- Injection moulding
- High-pressure die casting
- Machining centres
- Machine tools



#### Typical uses:

- Packaging
- Palletising
- Joints (glued, welded, screwed)
- Cutting
- Assembly
- Testing



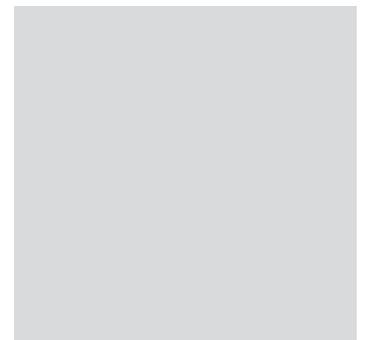
### MLB: linear module with toothed belt

This compact series, with its integrated drive unit from Güdel, is particularly suitable for applications in packaging and logistics, in the food and pharmaceuticals industries and in general handling. These linear modules are all highly dynamic and generate very low noise levels.



# GÜDEL

we move you



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