

| PRODUCTS

Components

Robotics

| INDUSTRIAL AUTOMATION

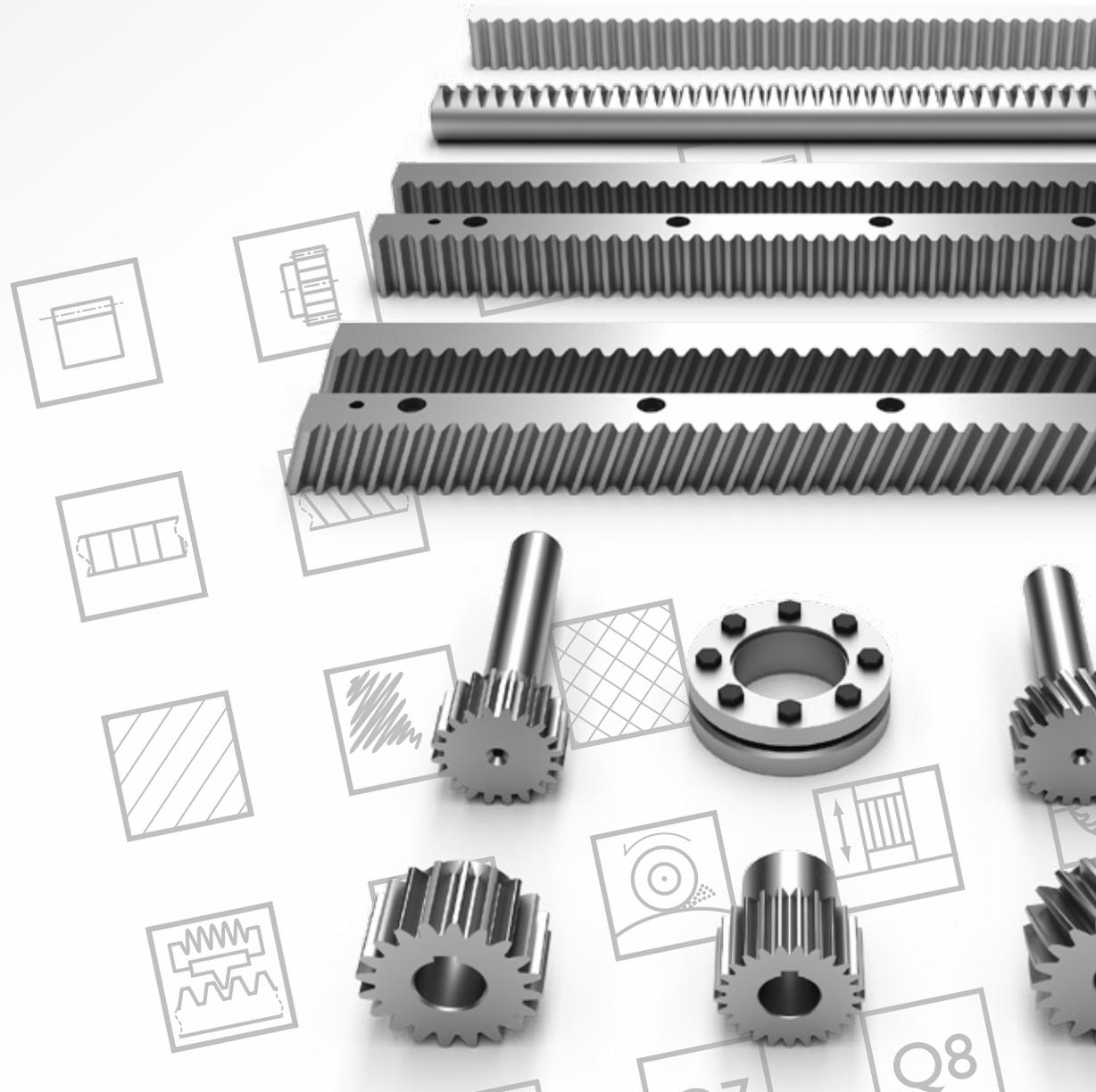
Factory Automation

Press Automation

Renewable Energies

Intralogistics

Racks and pinions – we ensure quality, availability  
and excellent after-sales service



## Our components form the foundation

### GÜDEL's expertise is in the development and manufacture of linear and drive components, and in the associated advisory services

Rack-and-pinion drives from GÜDEL are available in several different designs and quality standards. We can also supply special customised models on request. Therefore, we can always provide the right solution for any application in any industry.

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.



#### Modularity provides great flexibility

All of our modules are based on high-quality components. Our precision guide rails and drive components permit high speeds and excellent acceleration. Payloads of between ten kilos and several tons can be positioned very accurately. GÜDEL's linear technology components have proven themselves in the field, in particular for machine tools, special machines and in handling technology.

#### The ideal drive unit for great precision and economic efficiency

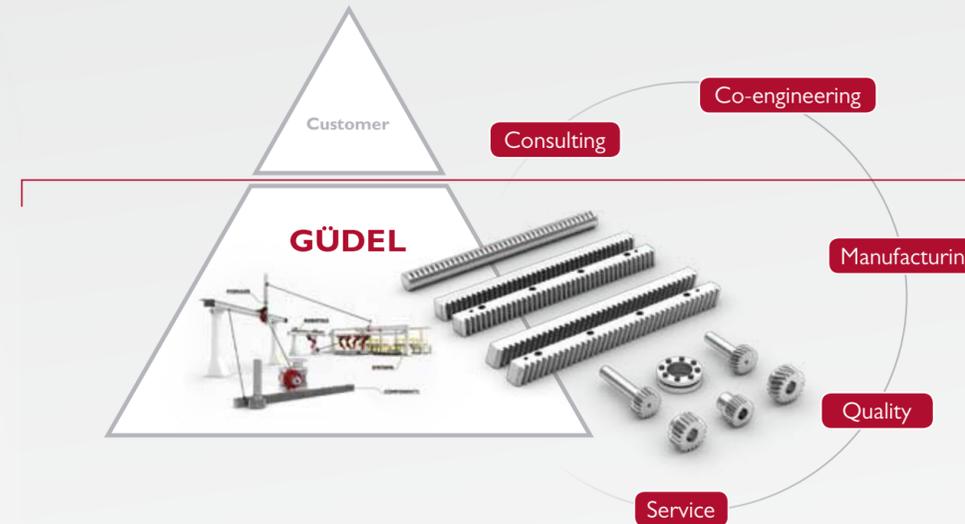
All of the components and equipment from our product range complement each other perfectly and are well suited for use in high-performance drive units. They meet the highest standards with regard to precision and economic efficiency. Using our compact components, we can build highly-dynamic drive systems that can be deployed anywhere with regard to their installed position.

## Good reasons for choosing GÜDEL



The ideal configuration for your drive unit:

- | Planetary gears
- | Pinions
- | Racks



#### Everything from a single source

Our drive components enable us to provide solutions for a wide range of applications. The standard range comprises a variety of sub-modules in various different materials and quality levels from stock.

We accompany the client over the course of the whole process, i.e. at the consultation phase, in the selection and delivery of the components, and culminating with the after-sales service.



## Our solutions are as wide-ranging as your requirements

#### Proven solutions

Using our modular rack-and-pinion range of equipment, our customers obtain technically complex solutions for general machine construction and for integrated system automation (industrial automation). The systems are re-

sistant to contamination and provide very long movements. They are also suitable for machine tools and for plasma, laser and water-jet cutters. In addition, these components are available in various different materials. This allows them to be used in the food and pharmaceuticals industries.



Example 1: GÜDEL milling machine



Example 2: ByAutonom laser cutter from Bystronic

#### Machine tools

Milling  
Drilling  
Turning  
Grinding

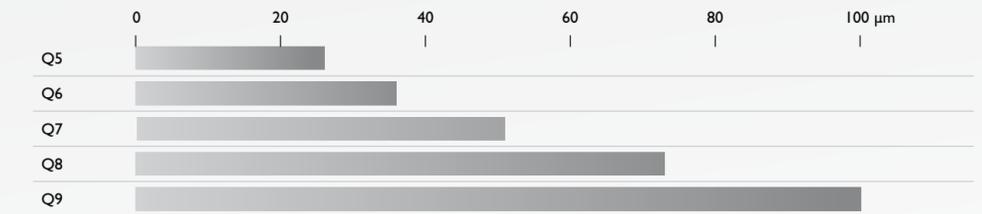
#### Areas of use

Special machines  
Paint-spraying  
Chemicals  
Pharmaceuticals

Clean room  
Defence industry  
Welding  
Clinching  
Casting

#### Swiss quality – made locally

Quality in accordance with DIN 3962



Total deviation using module 4 as an example; length of rack 1000 mm

For full technical specifications, drawings, design tools and selection tables, visit our website: <http://www.gudel.com/components/rack-and-gears/racks-and-pinion>



#### High quality thanks to a high level of internal production

We develop and manufacture all the main components in our own factories using state-of-the-art machine tools. Thanks to our decades of experience in making pinions, cogs and gears, we have created an extensive range of high-quality standard products.

# Racks and pinions made to measure

## Product group



Rack



Pinion



Rack, round



Pinion with shaft

## Toothing



Straight



Helical

## Material



Steel



Stainless steel



Polyamide

## Finish



Hardened



Ground



Ground crowned



Precision cut



Milled

## Qualität



Q5



Q6



Q7



Q8



Q9

## GÜDEL's rack-and-pinion range

Our components are available in a wide range of designs and quality standards. This enables us to provide products that are perfectly tailored to any industry or usage.

Sizing tools and selection tables are available on our website:  
<http://www.gudel.com/components/rack-and-gears/racks-and-pinion>



## Quality in accordance with DIN 3962

- Q5 hardened and ground
- Q6 hardened and ground
- Q7/8 precision cut
- Q9 precision cut and hardened

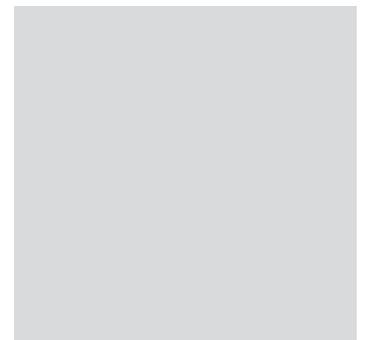
## GÜDEL's advantages:

1.	Advisory services, development and manufacture in its own factories	▶ One contact partner
2.	Very dynamic, large payloads, excellent precision	▶ Wide range of potential uses
3.	Customised solutions based on proven, standardised components	▶ Reliable solutions
4.	Wide range of options and versions	▶ Optimum solution for all industries
5.	Fifty years of experience in linear and drive systems	▶ Proven technology
6.	Swiss quality, worldwide manufacture	▶ Quality and precision
7.	Global presence in the key markets	▶ Local expertise
8.	Maintain productivity and reduce system downtimes	▶ GÜDEL service 24/7

## How you benefit:

# GÜDEL

we move you



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