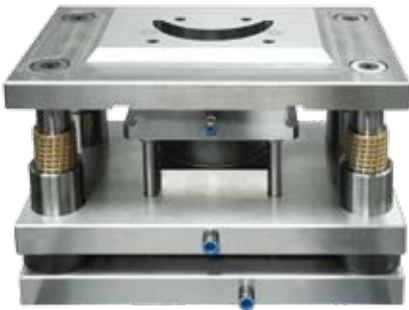


A Passion for Precision



Design and construction of punching tools and special machinery for industrial purposes



GRUBER

Gruber manufactures **tailor-made** special tools and machines for manufacturing specialists.

- Our skill is **uncompromising precision!**

Passion for precision isn't just a slogan, it's the three words that best express our approach to the manufacture of special tools for industrial purposes.

It's all about precision and accuracy.

Our customers demand extremely low tolerances, and we can supply the solutions they need.

- Because we benefit from more than 30 years of experience in designing and constructing solutions where absolute precision and high-quality materials are the keys.
- Because we use the latest production technologies and machines.
- Because we manufacture in air-conditioned facilities at a stable temperature of exactly 20 degrees. Only by eliminating temperature variation is it possible to deliver the lowest tolerances - with absolute accuracy maintained constantly.
- Because our staff are professional specialists, most of whom have more than 15 years' experience with precision work.
- Because our newly-constructed 1500 m² manufacturing facilities and 500 m² of office and engineering space are specially designed to meet our requirements.





Gruber's core products are **durable and efficient punching tools** for packaging, caps and foils.
- But we're also **highly-skilled** when it comes to developing new solutions!



For many years, Gruber has delivered standard-setting *cap punching tools* to the pharmaceutical industry and we continue to do so. Every year, billions of special caps for insulin containers, amongst other things, are produced using our tools.

Gruber has added quality and know-how over the course of many years, and our newly-developed punching tools represent the very latest technology.

Gruber possesses significant expertise and experience in manufacturing *packaging punching tools* for thin tin and plastic. Typically, thin tin tools are constructed as opening tools for general packaging – and often for foodstuffs.

Foil tools



Packaging tools for thin tin tools for finger

Low maintenance costs and durability are also important parameters for customers when they choose Gruber as their supplier of specially-made punching tools. These parameters mean that our solutions are highly competitive when all costs are taken into account.

Our *foil punching tools* are also known for their extremely high quality, with cutting gaps right down to 0.003 mm. They're used in industries which employ plastic foils and other thin materials with various properties.

Cap tools



8 mm Novo kapsler



Top for Nestle cans

Gruber are happy to participate actively in constructive dialogue with customers and companies with special needs.
- And we're happy to take part in demanding projects!

Excellent dialogue is often the basis for delivering common goals and success in close and open co-operation with the customer – right from the idea stage to the finished product.

Many of our partner organisations complement our skills and innovative approach – but we're also good at working together to deliver newly-developed tools and machines for specialist purposes.

When should we start a dialogue about constructive and fruitful cooperation on your project?



Like most other companies, we collect satisfied customers.

However, a working relationship is only as durable as the continual quality of the product provided combined with delivery and service agreements and price levels. You can read what some of our customers have to say about Gruber here:



“Neither the Chinese nor any other supplier can match Gruber for quality...”

Quality is of crucial importance for Novo and after quality comes service. We view quality as an uncompromising attitude – only using the best materials and handling and working them with the very highest accuracy. That's what Gruber delivers. By over sizing gears and other key machine components we know that it will continue to deliver even 30 years down the line – neither the Chinese or anyone else can deliver that level of quality.

Bo Hallager, NOVO NORDISK





**Uncompromising precision solutions are only worthwhile
if the customer is absolutely satisfied with the result.
- Fortunately, our customers are!**

**"Machines that delivers,
time and again..."**

When it comes to quality considered as durability and low maintenance costs Gruber are in a class of their own. They were the first to bring plastic punching tools to market 13-14 years ago, and they're still running today. Their machines deliver time and again.

We have worked wonders together and pushed the limits.

*Poul Henrik Larsen, PH TEKNIK -
supplier to COLOPLAST*



**"Gruber put their life and
soul into what they do..."**

For us, quality and knowhow are what counts, followed by service and price. In that order. On the technical side, Gruber are way out in front, not least when it comes to delivering the latest punching tool solutions. They put their life and soul into the work they do – and all their staff are very highly skilled.

Markus von dem Esche, WEST

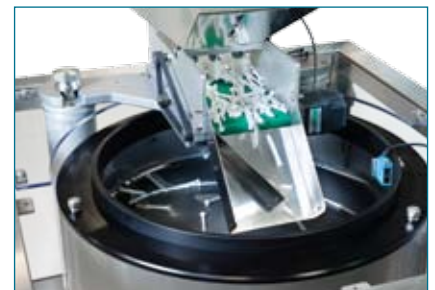
**"Gruber solve the
problems others can't..."**

For Bosch, quality is key when we choose our suppliers. This includes functional quality – meeting specifications and capacity requirements.

Gruber has delivered an outstanding punching tool to the project where competing companies had had to throw in the towel. The tools are still running smoothly and work to very high precisions.

Gruber possesses both the technology and the determination to participate in development projects.

*Preben Rasmussen, Bosch Møller &
Devicon*



**Gruber's ingenious use of centrifugal force
has solved many a sorting task.
Our centrifugal feeders can also solve yours!**



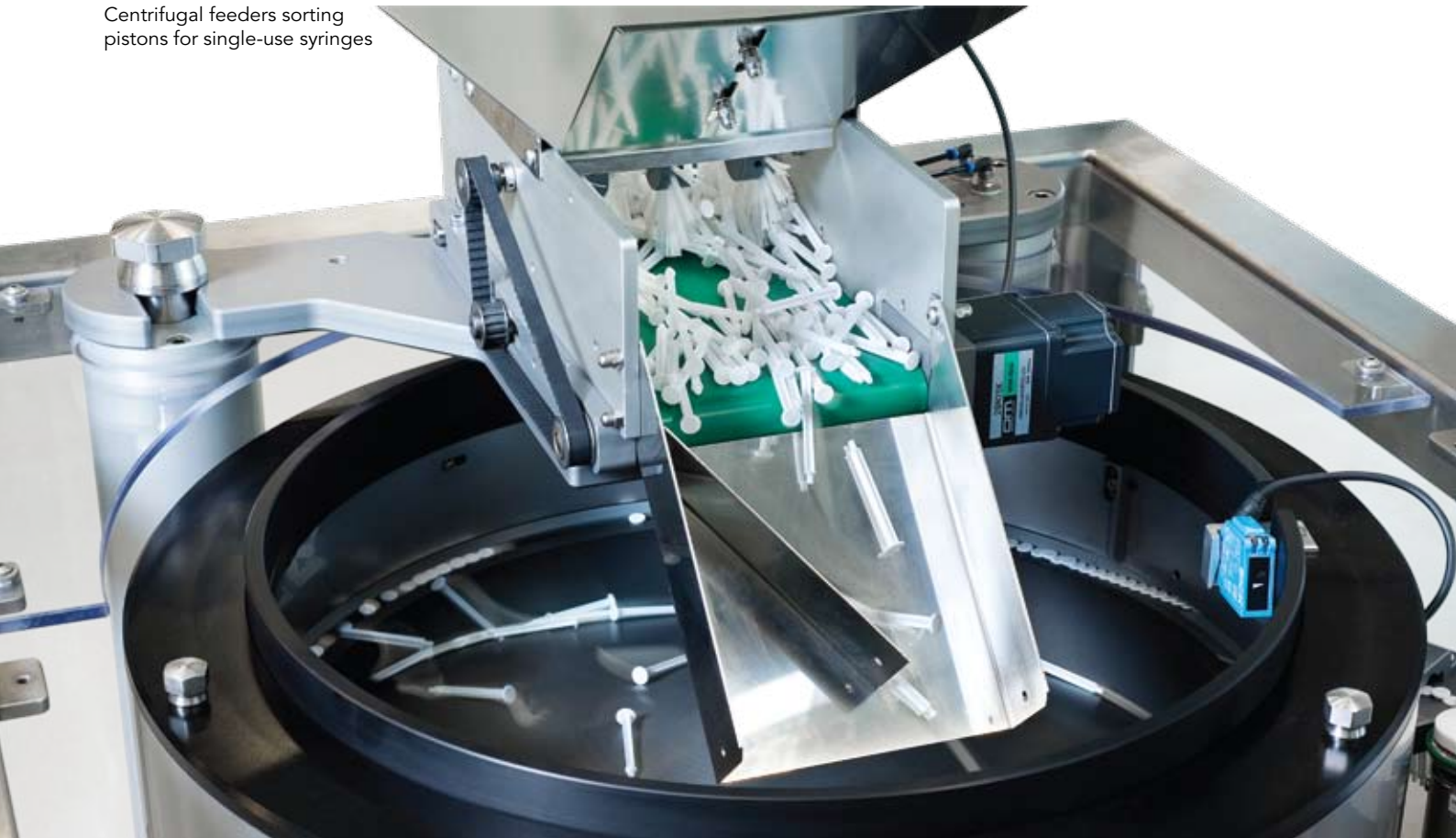
A specially-constructed Gruber centrifugal feeder can both sort and align a range of objects in connection with automatic assembly machine processes. The centrifugal feeder's capacity is between 200 and 500 units a minute, but, in some cases, this can be increased to up to 2000 units per minute.

It's the centrifuge which directs units out to the edge of the centrifugal feeder bowl, whereafter sorters align the the units in the desired direction ready for the next process. For many

years, Gruber has developed a range of centrifugal feeders – not least for leading pharmaceutical companies that have benefited from our products' quality and capacity.

Get detailed technical information about our centrifugal feeder solutions at www.gruber.dk

Centrifugal feeders sorting pistons for single-use syringes





Lining machine

When pharmaceutical companies need
a lining machine they often contact Gruber.
- And we're always ready to provide **effective first aid!**



Lined caps

Punching and insertion of a rubber membrane on vial caps is a process that includes extensive unwinding, thickness control, punching, insertion, cleaning, repressing, optical control and automatic rejection of discarded caps. Capacity of up to 63,000 units per hour – or one and a half million every 24 hours.

Gruber is a recognised and highly reputable supplier of *rubber lining machines* and *cap-welding machines* to the pharmaceutical industry, because we benefit from unparalleled expertise.

Get detailed technical information about our lining machines at www.gruber.dk



Poul Bek,
 Managing Director
 Has a solid professional manufacturing background from the steel and engineering industries.



Karsten Pagh Thomsen,
 Production Manager
 Has a solid professional background from the toolmaking industry. Independent since 1994.



Finn Christensen,
 Construction Manager
 Has a solid professional background from the toolmaking industry. Independent since 1994.

**Gruber's staff, environment, processes
 and production site are a story of their own
 – We call it **Passion for Precision****

Gruber PLC was founded back in 1973 by the Swiss tool manufacturer Franz Gruber. He achieved iconic status within the area of specialist production of punching tools and special machines for Danish pharmaceutical companies.

Today, Gruber A/S is the result of a fusion of three well-known tool manufacturers: Fraefel Værktøjsfabrik, W. Homann and Franz Gruber, with the last mentioned providing the core of the company.

For three decades, the Passion for Precision has been the watchword for Gruber's development, manufacture and delivery of

tools and machines for Danish and international manufacturers.

We have retained the best staff from all three factories – and the vast majority of our 25 specialist staff now benefit from over 15 years seniority.

This has delivered us knowhow and stability that's unparalleled in the industry and is your guarantee of the highest quality and precision.

We make significant efforts to look after our staff, and health insurance and fresh fruit every day are all part of the package.



We work in a modern, air-conditioned manufacturing environment where nothing is left to chance. Many of our processes are absolutely unique, but then, so are our customers.



"Precision is the art of hitting the dead centre of what everyone else thought was a bullseye..." (Robin Hood)



GRUBER

Gruber A/S Ole Rømers Vej 32 DK-6100 Haderslev

Telefon +45 74 52 93 92 Telefax +45 74 53 37 51 www.gruber.dk salg@gruber.dk