

# Insights



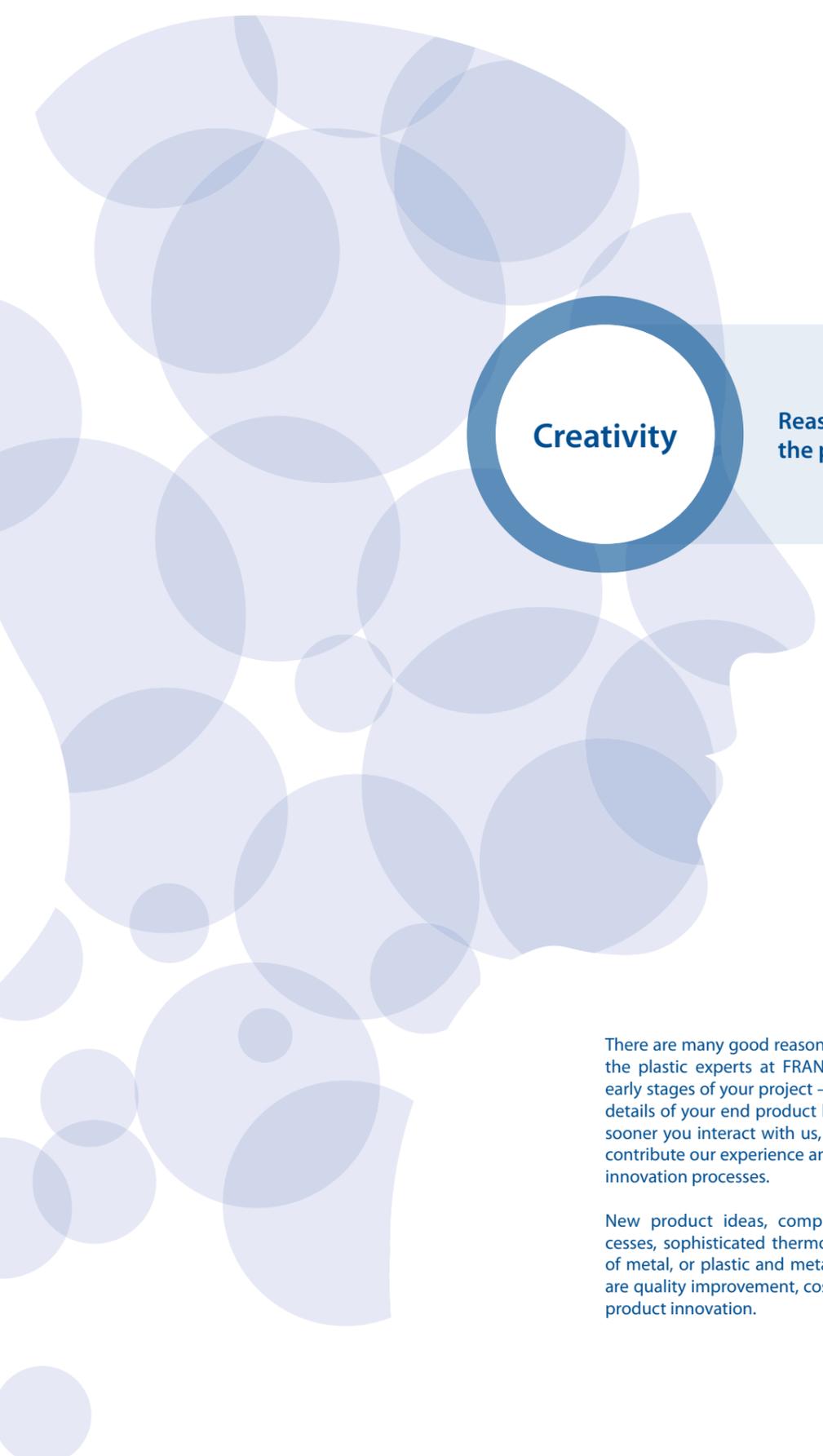
Plastic at its best

For more than seven decades, FRANK plastic AG has been a versatile supplier for demanding thermoplastics components and subassemblies.

We use highly automated and sophisticated manufacturing processes to make products for medical technology, electrical engineering, industrial engineering, automotive industry, the furniture industry, and many other sectors. Creativity, innovation, experience, expertise, service capabilities, quality and cost-effectiveness make us a leading supplier for demanding plastic processing applications.



Plastic at its best



## Creativity

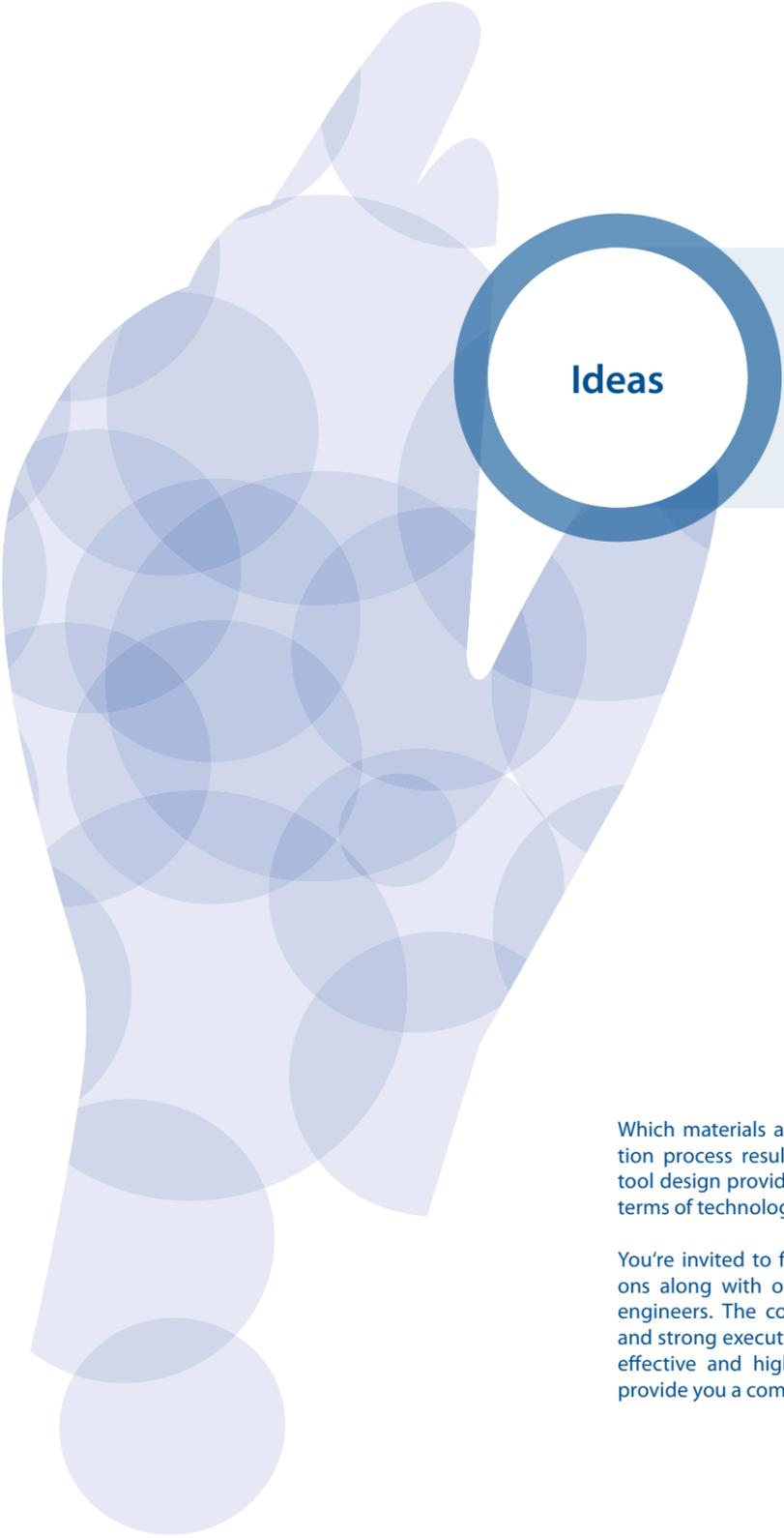
Reasoning unlocks  
the path to solutions

There are many good reasons to talk with us. Contact the plastic experts at FRANK plastic AG during the early stages of your project – preferably before all the details of your end product have been designed. The sooner you interact with us, the more we are able to contribute our experience and creativity to drive your innovation processes.

New product ideas, complex manufacturing processes, sophisticated thermoplastics, plastics instead of metal, or plastic and metal? Our common targets are quality improvement, cost reduction, process and product innovation.



## Ideas



**Ideas**

Competence results when ideas are transformed into solutions

Which materials are suited best, what production process results in the lowest costs, what tool design provides the highest advantages in terms of technology and cost?

You're invited to find answers to these questions along with our development and design engineers. The competing forces of creativity and strong execution skills results in more cost-effective and higher quality solutions, which provide you a competitive edge.



**Competence**



**Competence**

Sophisticated skills  
provide prime quality

The path to a perfect product calls for experience in addition to skills. FRANK plastic AG operates for more than seven decades. We believe in quality as a constantly increasing factor for our processes and the products of our customers.



**Perfection**



**Perfection**

Quality has deep roots  
at FRANK plastic AG

Many of our customers demand quality across a broad manufacturing spectrum from a single source. At FRANK plastic AG – plastic at its best – already begins with the product development/design engineering phase and our in-house mold making shop. They are the basis for everything that follows in perfection: injection molding, extruding, machining, cleanroom production, complex assemblies, packing, coating, printing, and many more value-adding processes.

Due to the broad spectrum of production processes and materials, even highly complex requirements can be reliable and cost-effective implemented.

The quality management system at FRANK plastic AG meets the following standards:

- DIN EN ISO 9001
- VDA 6.1
- DIN EN ISO 13485

We use SAP ERP as our ERP system, which is supported by a CAQ system.



**Technology  
platform**



## Technology platform

Quality from one source

FRANK plastic AG processes more than 2,000 tons of thermoplastics annually. This goes from highly-precise components, produced in very high numbers, to complex subassemblies, e.g. in highly challenging composite technologies as hard-hard or hard-soft compounds. Manufacturing parameters are optimized for each product. Equipment for machine data logging ensures subsequent reproducibility, e.g. as spare parts – with identical parameters and in identical quality.

We integrate various degrees of automation into the production flow. As a result, high-volume as well as low-volume lot sizes can be produced cost-effectively.

We operate:

- on more than 70 CNC-controlled injection molding machines
- with locking forces from 250 to 4,200 kN
- injection molded parts with unit weights up to 1,800 grams
- hard and soft compounds, incl. over-molded parts
- multi-part components



## Injection molding



## Technology platform

Profiles for specialists

FRANK plastic AG has decades of extrusion experience processing a wide range of thermoplastics. We supply finished products in standard lengths or rolls, and cut to length. Our highly-sophisticated equipment supports the combination of hard and soft components in various colors and/or in customized material specifications. We carry out almost any type of downstream process in-house.

Our range of services:

- parts with wall thicknesses from 0.6 to 17 mm
- more than 20 extrusion lines with output capacities of 200 kg/h
- almost unlimited range of materials and colors
- co-extrusion
- subassemblies
- inline packing
- customer-specific order picking and logistics



## Extruding





## Technology platform

All facets of processing

Processing/  
assembling/  
controlling

Our advanced machinery and tremendously trained workforce supply highly-accurate machining services for thermo-plastic and high-performance plastic materials.

Our range of services includes:

- processing: turning, milling, drilling whether one-off, small lot, or mass-produced parts – your components are manufactured on sophisticated 7-axis CNC machining centers
- weldments made from plastics: socket, mirror, hot gas string bead, infrared, and friction welding processes
- development and manufacturing of plastic/metal composites
- production of plastic rollers with/without metal cores and profile geometry
- assembly of technical subassemblies in combination with printing, gluing, completion – also in combination with injection molded and extruded components
- plastic-based measurement and control technology:
  - flow meters
  - pressure control valves
  - special-purpose fittings



**Technology  
platform**

Production environment is the key



**Cleanroom**

We have been producing products under cleanroom conditions for almost 40 years:

- ISO class 8 cleanroom with more than 2,000 m<sup>2</sup> of floorspace
- 40 injection molding machines with locking forces up to 2,500 kN

We can also supply:

- complex assemblies with manual, partially or fully-automated cleanroom processes
- finished parts according to customer specifications
- validated processes
- cleanroom technology across industries and manufacturing processes



## Range of services

Complex plastics technology from one source

FRANK plastic AG is a system supplier and offers a wide range of services. This also includes coordination of specialists from various disciplines, any required integration of other suppliers, detailed planning of all necessary processing steps from product development to supply logistics, and much more.

FRANK plastic AG is an expert, producer, and reliable partner for customers from a wide range of industries. Our decades of experience and our production layout, technical, and staffing capabilities create the best possible conditions to meet our customer expectations and needs.

Our long-standing customer relationships are an excellent proof of our expertise and capabilities. With this in mind, we implement projects with short timeframes – efficient and cost-effective.

An excerpt from our industry portfolio:

- medical technology
- electrical engineering
- industrial engineering
- automotive industry
- furniture industry
- and others ...



## System partnership

Your partner for:



There are many reasons to talk with us



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