

**Maximum economy**  
for autonomous work processes



passion  
for precision



**Autonomy**  
Machining without human  
process monitoring



Here you will be provided with further information on the FRAISA Group.



The fastest way to our E-Shop can be found here.



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## Technological transformation: Autonomy as a huge opportunity



This everyday phenomenon has been around a long time: automatic processes of the kind seen for example in machining centers. In autonomous work processes, machines automatically adjust themselves for new processes, different products, or the manufacturing of product variants.

Autonomous processes have the advantage of achieving high levels of machine utilization while simultaneously improving working conditions for employees. Late night and weekend shifts can be avoided if the machines are equipped for these periods during the day shift. FRAISA implemented these processes in its own production facilities years ago.



## Key function of the tool manufacturer: "Tool-component" interaction as a core competency



In autonomous manufacturing, the contact zone between component and tool represents a highly complex area. Extreme pressures, friction, fluctuating temperatures and chemical processes occur here. These effects ultimately determine the quality of the component, the production costs, and the economic efficiency of the process.

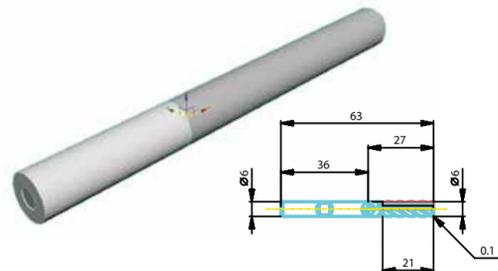
As a tool manufacturer, FRAISA engages intensively with the contact zone processes. The key to good-quality and sustainable tool development is a fundamental understanding of these variables and their interactions.



## Digital Twins from FRAISA: For virtual representation of the production processes



Exact geometric data (DIN/ISO-compliant) are available in various formats. They are kept up-to-date and can be downloaded easily and securely from FRAISA ToolExpert®.



## FRAISA Tool design: Lower production and logistics costs thanks to multi-functionality



FRAISA tools are known for high cutting performance. At the same time, FRAISA also offers MFC (multi-functional cutting) technology, which enables the tools to be used reliably in a wide range of materials.

### Your advantage:

With MFC, you benefit from lower tool diversity, fewer occupied magazine spaces in the machine, simpler logistics and lower costs.



## FRAISA Product quality: Consistent quality for top performance



Autonomous processes run in shifts with little or no personnel. It is crucial that the tools used work absolutely reliably and always deliver the same performance. With highly advanced autonomous processes, FRAISA achieves the highest consistency in product manufacturing.

### Your advantage:

Due to the consistent quality of FRAISA tools, you can rely on consistently high efficiency and performance.



## FRAISA Cutting data: Greater efficiency in production



FRAISA invests around 50% of the total development budget in developing tested and analyzed real-world cutting data. The result is "Plug & Play" solutions, which remove the need for costly experiments in live operation.

### Your advantage:

The high-quality cutting data from FRAISA ToolExpert® guarantee fast and reliable implementation of your autonomous processes.



## FRAISA CAM integration: Efficient data import via online interfaces



The manual integration of tool and application data is often prone to errors and is time-consuming. FRAISA works with the most important manufacturers of leading CAM systems to develop and update fully automated online interfaces for our FRAISA ToolExpert®. These facilitate the automatic and error-free import of all tool-related data into one's own CAM system.

### Your advantage:

Importing cutting data directly into your own CAM system reduces time requirements and error-proneness, while increasing efficiency.



## FRAISA Application consulting: Many years of expertise and intensive training courses



Process understanding is the key to success: In addition to their many years of professional experience, our FRAISA application engineers receive intensive training several times a year to ensure that they are always up to date with the latest technology. They sell solutions that take our customers' production to a higher level of profitability.

### Your advantage:

Your personal contact knows your individual requirements and uses their expertise to find the best possible solution for your needs.



## FRAISA ReTool®: Reliability you can build on



Carbide tools are made from valuable raw materials, especially tungsten and cobalt - so reconditioning is usually worthwhile. FRAISA has a highly automated service center for industrial tool reconditioning, restoring original performance.

### Your advantage:

Your reconditioned FRAISA tools can also reliably be reused in autonomously operating processes.

