

# HIGH PRECISION PARTS IN ADVANCED CERAMICS

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# YOUR SPECIALIST IN HIGH-PRECISION ADVANCED CERAMICS



Complex machined parts

Thanks to its technical experience, Ceramaret is able to work with you to design high-precision ceramic parts based on the specific properties of the chosen materials. Our active involvement in the earliest phases of the design and production of your ceramic parts is the guarantee that you'll receive technical solutions at competitive prices. Our in-house capabilities allow us to design unique tools for the different stages in the manufacturing process.

For decades, Ceramaret has been a world leader in the design and polishing of components made from the hardest materials. From engineering to customer inventory management, we provide comprehensive, tailored solutions. Even with production runs in the millions, our parts, which are produced with extreme precision, are designed for the most cutting edge applications.



High-precision sapphire pistons assembly

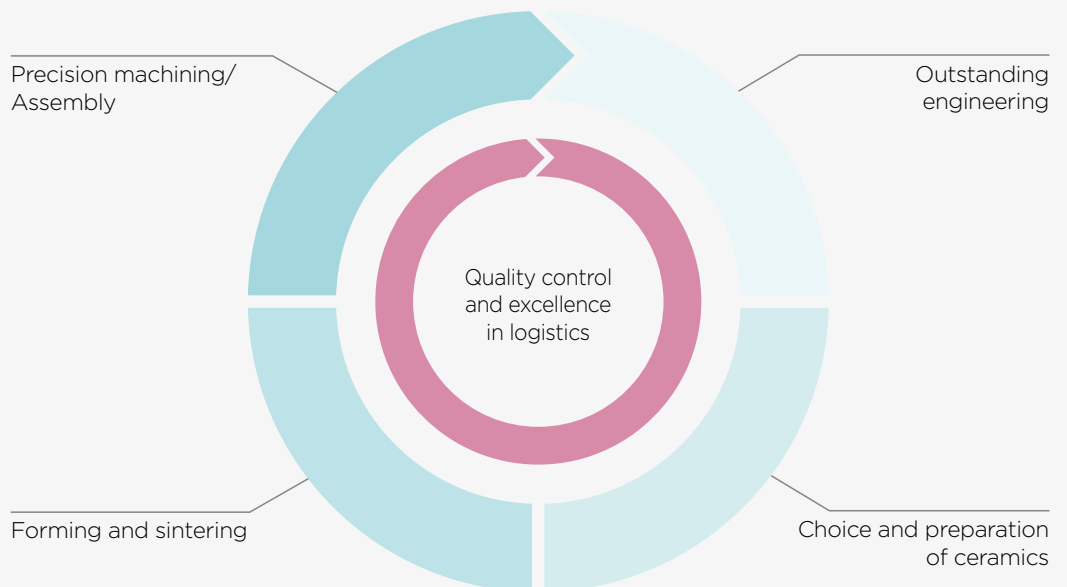
## A COMPLETE RANGE OF SERVICES



High-precision valve pairing



Piston and cylinder units matched for ceramic sealing



# THE EXPERT IN ULTRA-HARD MATERIALS

In comparison to metals and plastics, ceramic material is the obvious choice for use in extreme conditions: severe changes in temperature or pressure, corrosion, particularly if these conditions present themselves at the same time or over a prolonged period of time.

Ceramaret sells oxide-based advanced structural ceramics, principally alumina and zirconia but also develops carbide- and nitride-based ceramics.

The general properties of ceramic material present the following advantages:

- High wear, heat, pressure, and chemical attack resistance (gas and liquids)
- Extreme hardness
- Excellent electrical insulation
- Relatively lightweight

UNRIVALLED PRECISION

EXTREME HARDNESS  
OF MATERIALS

FROM THE PROTOTYPE  
TO LARGE SERIES  
PRODUCTION

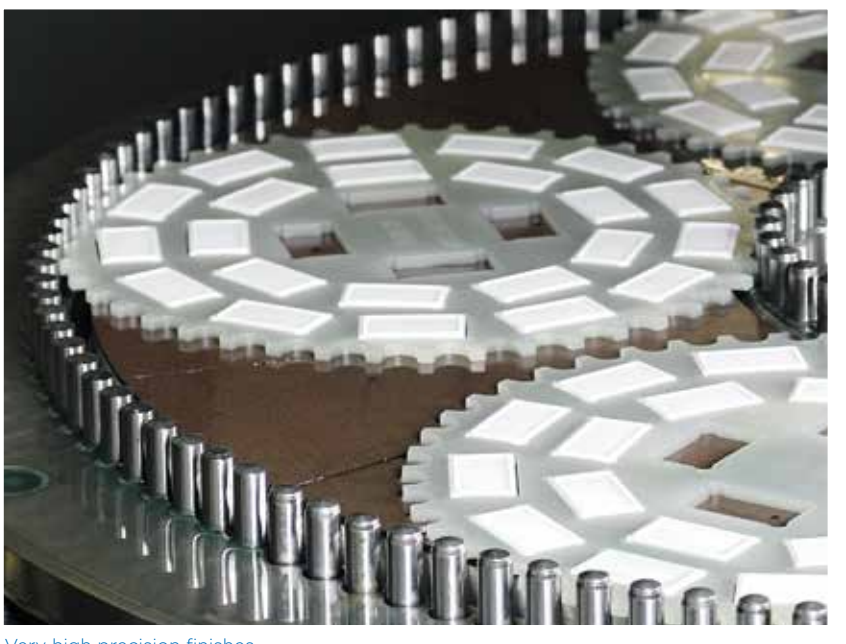
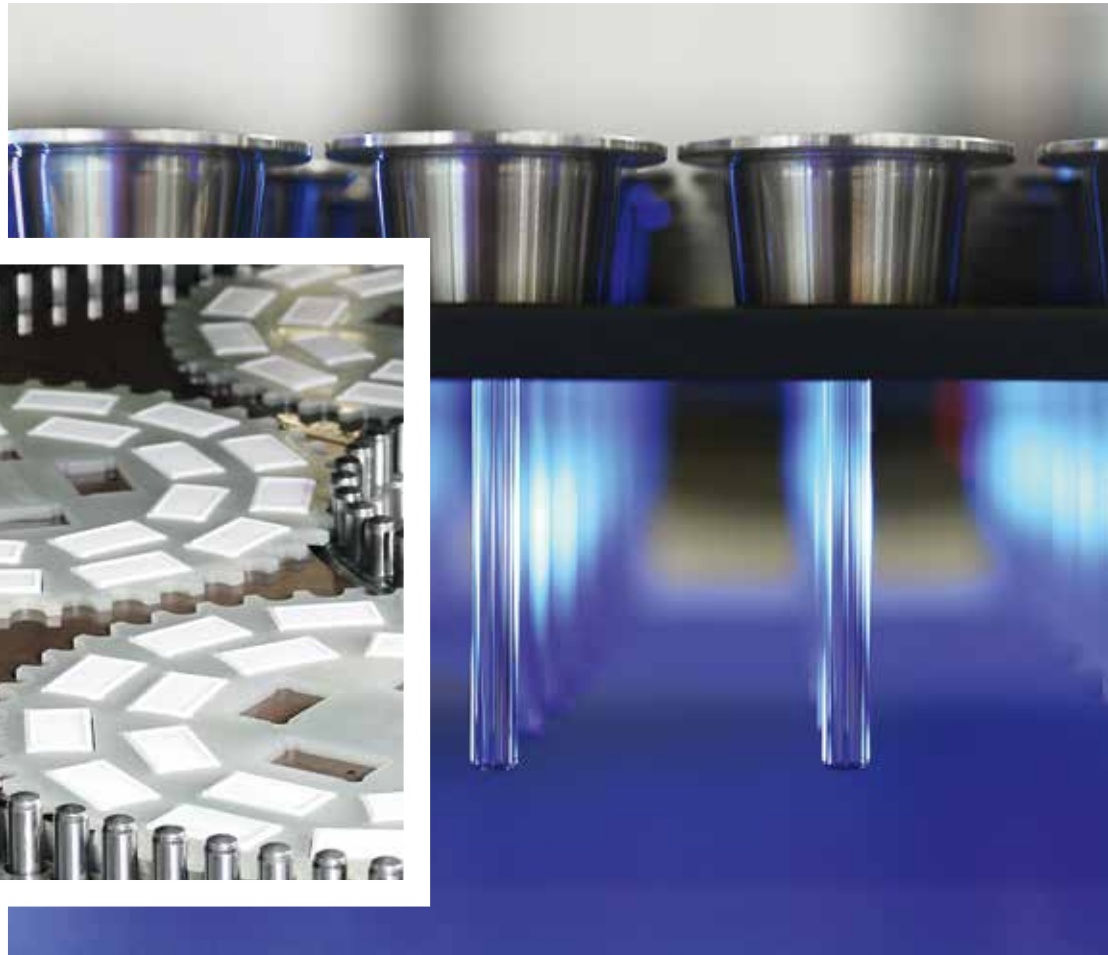
# CUSTOMIZED SOLUTIONS FOR YOUR APPLICATIONS, EVEN THE MOST EXTREME

Ceramaret designs and manufactures components from ultra-hard materials such as advanced ceramics (alumina  $\text{Al}_2\text{O}_3$ , zirconium oxide  $\text{ZrO}_2$ , silicon nitride  $\text{Si}_3\text{N}_4$  and silicon carbide  $\text{SiC}$ ), synthetic sapphire and ruby.

Ceramaret enables clients and partners to benefit from its decades of experience in the shaping and machining of advanced ceram-

ics and hard materials. We are committed to providing smart, sensible, and innovative solutions. Your technical requirements are met within your budget, taking logistics requirements into account.

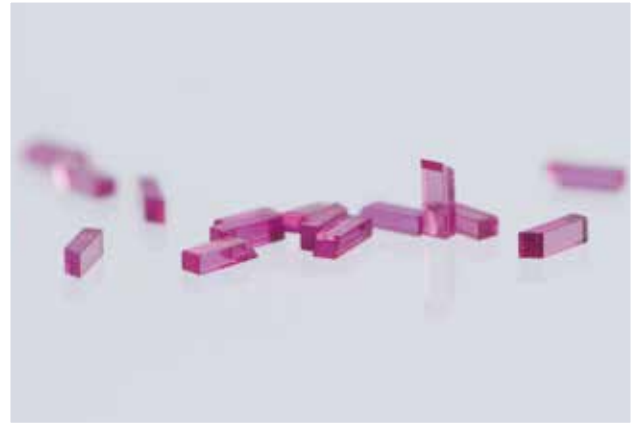
Today, components produced by Ceramaret have become internationally recognized for their quality and unmatched performance.



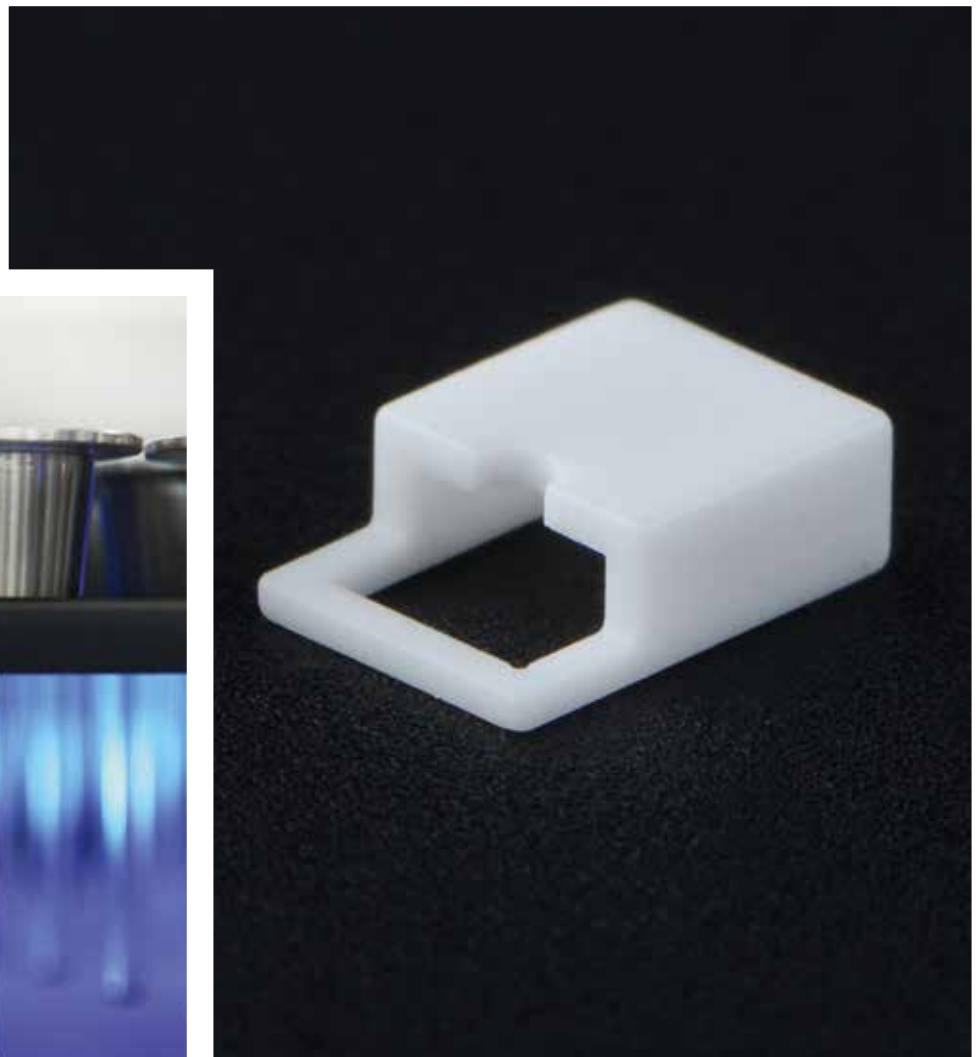
Very high precision finishes



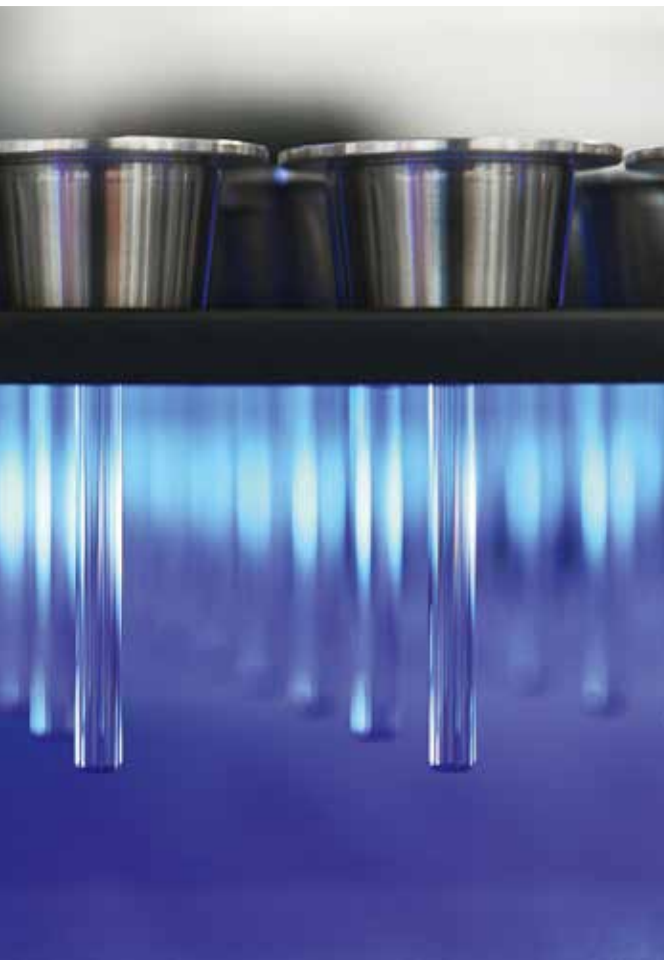
Medical instrumentation



Applications for the watchmaking sector

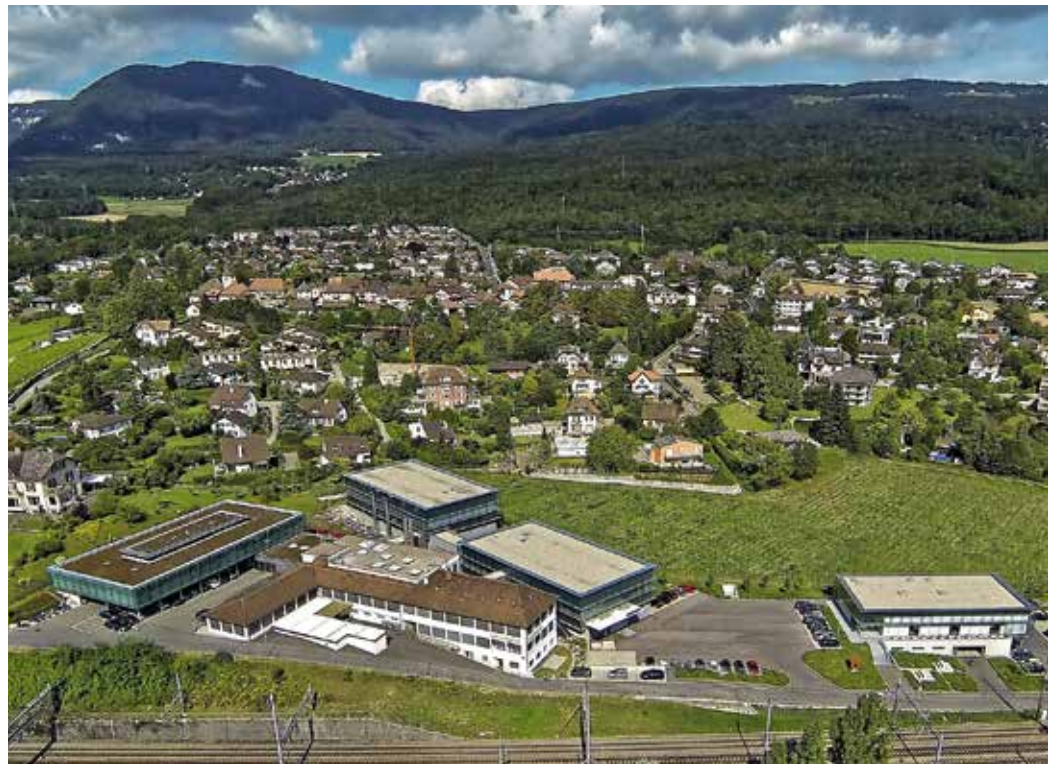


Automotive and industrial applications



Applications for the fluid-handling sector

## HIGH PRECISION PARTS IN ADVANCED CERAMICS



For over a century, Ceramaret has dedicated itself to shaping, machining and polishing hard materials. Founded during the industrialization of the watchmaking industry, Ceramaret has been successful in opening itself up to new technologies thanks to a visionary development strategy.

The expertise of our employees and state-of-the-art production facilities are key elements in meeting our clients' needs. Our ISO certifications (ISO 9001: 2015, ISO 14001: 2015, OHSAS 18001: 2007 and ISO 13485: 2012), coupled with our continuous improvement policy guarantee our success.

## CONTACT US



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