

HIGH-PRESSURE PISTONS

High-performance ceramics

HIGH-PRESSURE PLUNGERS

Pistons made of F99.7, FZT or FZM ceramics are used to transfer media ranging from liquids to high viscosity substances, even with an abrasive filler. The ceramic high-performance pistons and plungers are also exceptionally well-suited for extreme-pressure applications, such as water-jet cutting. High resistance to wear and optimal sliding properties ensure a long operational life.



We supply suitable materials in the required dimensions for all individual applications.



FIELDS OF APPLICATION

- ▶ Water-jet cutting lines
- ▶ Desalination units
- ▶ High-pressure lines
- ▶ Recirculation systems for
 - filtration
 - cooling
 - flushing

BENEFITS

- ▶ Extreme resistance to wear
- ▶ Optimal sliding properties ($R_a < 0.05 \mu\text{m}$)
- ▶ Pressure resistance of up to 10,000 bar
- ▶ Runtime of more than 2,000 h at 3,000 bar
- ▶ Lighter than metal/tungsten components




Source: Jet Cut Power GmbH, Switzerland

ABOUT KYOCERA



The global Kyocera corporation - a strong partner.

- ▶ **Headquarters:** Kyoto, Japan
- ▶ **Foundation:** 1959
- ▶ **Employees:** over 83.000 worldwide
- ▶ **European headquarters:** Esslingen, Germany
- ▶ **European production sites:** Mannheim, Germany
Selb, Germany
(further subsidiaries in Europe)

 **KYOCERA** = **KYOTO CERAMICS**

KYOCERA – it all began with ceramics

KYOCERA Fineceramics Europe GmbH is part of KYOCERA Corporation, headquartered in Kyoto, Japan, one of the world's leading manufacturer of high-performance ceramic components for the technology industry. Today, the Kyocera Group offers over 200 different ceramic materials and state-of-the-art technologies and services tailored to the individual needs of each market

KYOCERA Fineceramics Europe GmbH has grown steadily in recent years – and is now a leading European supplier of customised solutions made of technical ceramics. Working in partnership, we develop and manufacture products that offer our customers added value in their respective markets and secure their technological lead in the long term. We are committed to this every day.

Throughout Europe, we are represented by two production and development sites in Mannheim and Selb, as well as six sales offices –

in Mannheim, Selb, Esslingen, Neuss, Rungis (France) and Frimley (United Kingdom).

Our hearts beat completely for ceramics. Our team provides comprehensive advice on the selection of ceramic materials, product design and project execution – from the development stage to prototyping.

We supply system components for high-tech applications in numerous industries. Our products are characterised by high quality, precision and durability.

Our business partners benefit from the fact that we think and work across divisions within the Kyocera Group. Because innovations and real milestones can only be achieved together – across industries and national borders.

This is what we believe.

About the KYOCERA Group

KYOCERA Corporation (Kyoto) is one of the world's leading manufacturers of high-performance ceramic components for the technology industry. Strategically important business areas of the Kyocera Group, which consists of around 300 subsidiaries, are information and communications technologies, products to improve the quality of life, and environmentally friendly products. The technology group is also one of the most experienced producers of smart energy systems worldwide.

The products marketed by the company in Europe include printers, digital copying systems, semiconductor-, fine ceramic-, automotive- and electronic components as well as printing devices and ceramic kitchen products.

Kyocera is represented in Germany by four independent companies:

- **KYOCERA Europe GmbH** (Esslingen and Neuss),
- **KYOCERA Fin ceramics Europe GmbH** (Mannheim, Selb, Esslingen and Neuss)
- **KYOCERA Automotive and Industrial Solutions GmbH** (Dietzenbach)
- **KYOCERA Document Solutions GmbH** (Meerbusch)

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation – established by Kyocera founder Dr. Kazuo Inamori – to individuals worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind.





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