



# HIGH-PRESSURE PISTONS

HIGH-PERFORMANCE CERAMICS

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## 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



**KYOCERA Fin ceramics Solutions GmbH**

Steinzeugstraße 92  
68229 Mannheim / Germany  
Tel.: +49 (0) 621 - 405 47 400  
E-Mail: [info@kyocera-solutions.de](mailto:info@kyocera-solutions.de)  
[www.kyocera-solutions.de](http://www.kyocera-solutions.de)

European Headquarters:

**KYOCERA Europe GmbH**

Fritz-Mueller-Strasse 27  
73730 Esslingen / Germany  
Tel.: +49 (0)711 - 93 93 4-0  
E-Mail: [info.fc@kyocera.de](mailto:info.fc@kyocera.de)  
[www.kyocera.eu](http://www.kyocera.eu)



**Authorized Distributor**

**ITALBRAS SPA**

Strada del Balsego, 6  
36100 Vicenza / Italy  
Tel: +39 0444 347559  
E-Mail: [info@italbras.it](mailto:info@italbras.it)  
[www.italbras.it](http://www.italbras.it)