

Sealing Solutions for Mining Industry



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Mining Industry needs reliable and robust sealing solutions, matching with requirements of demanding applications and severe working conditions.

With over 30 years of experience in Hydraulic Sealing, Kastas understands the very nature of mining and requirements of mining applications.

Kastas provides a wide product and material range to cover all mining applications, as well as customer specific solutions for various applications.



Test and Development

Each mining application has its own challenges which require careful selection of materials and sealing profiles. All development states needs carefully and methodically studied product properties in order to match the expectations of each application.

All seals are tested in our in-house test facilities by reproducing operating conditions and recording and monitoring, dynamic and breakout friction, pressure, speed and temperature with;

- Dynamic Test Rigs
- Finite Element Analysis
- High Pressure Test Rigs

Mining Industry Focus

Kastas offers rubber, rubber and fabric compounds and thermoplastic elastomers all developed for Mining Applications.

- Long Wall Roof Support
- Tunneling Machines
- Roof Bolting Machines
- Excavators
- Scoop Trams
- Roadheaders

Top Level Service

- Extensive ex-stock capability for standard products
- High production and services flexibility for customer-specific needs
- Reliable quality and competitive prices
- Industry's best lead times for customized and standard products
- Custom-designed products with lifecycle management

Product Range for Mining Industry

ROD SEAL



K31 ROD SEAL

- Able to work in high pressures
- Superior sealing effect in variable pressures
- Easy assembly into closed grooves



K33 ROD SEAL

- High wear resistance
- Superior sealing effect with the secondary lip
- Easy assembly into closed grooves



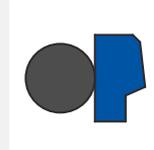
K01 ROD PACKING

- Adjustable seal housing height
- Functions even with poor surfaces
- Robust seal



K32 ROD SEAL

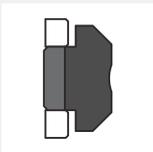
- Superior sealing effect with the secondary lip
- High wear resistance
- Secondary sealing lip provides extra protection against the ingress of dirt particles



K35 PU ROD SEAL

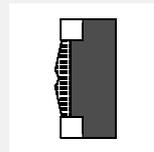
- High wear resistance for long service life
- Small groove

PISTON SEAL



K48 PISTON SEAL

- Simple groove design
- Superior performance in high and variable pressure
- Long service life



K504 COMPACT SEAL

- Low friction, free of stick-slip
- Improved abrasion resistance
- Good dynamic and static sealing

WIPERS



K11 WIPER

- Superior scraping effect
- Simple, easy-construction groove
- No twisting in the housing



K12 METAL CASE DOUBLE WIPER

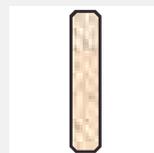
- Superior scraping effect
- Simple, easy-construction groove
- No twisting in the housing



K05 WIPER

- Superior wiping performance
- Improved wiping effect of dirt, water spray, etc with the help of the secondary sealing lip on the outer diameter
- Simple, easy-construction groove

GUIDE RINGS



K75 GUIDE RING

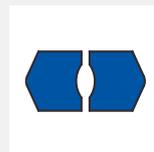
- Low friction coefficient
- Able to work on dry conditions
- Superior load cushioning

STATIC SEAL



K86 STATIC SEAL

- High operating pressures
- Interchangeable for o-ring and o-ring with back-up ring
- Can work under severe conditions



K83-K84 COVER SEAL

- High operating pressures
- High reliability
- Interchangeable for o-ring and o-ring with back-up ring

BUFFER SEAL

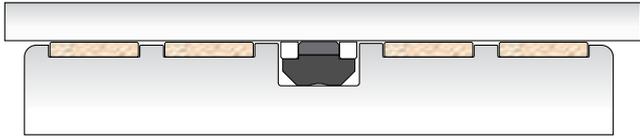


K29 BUFFER SEAL

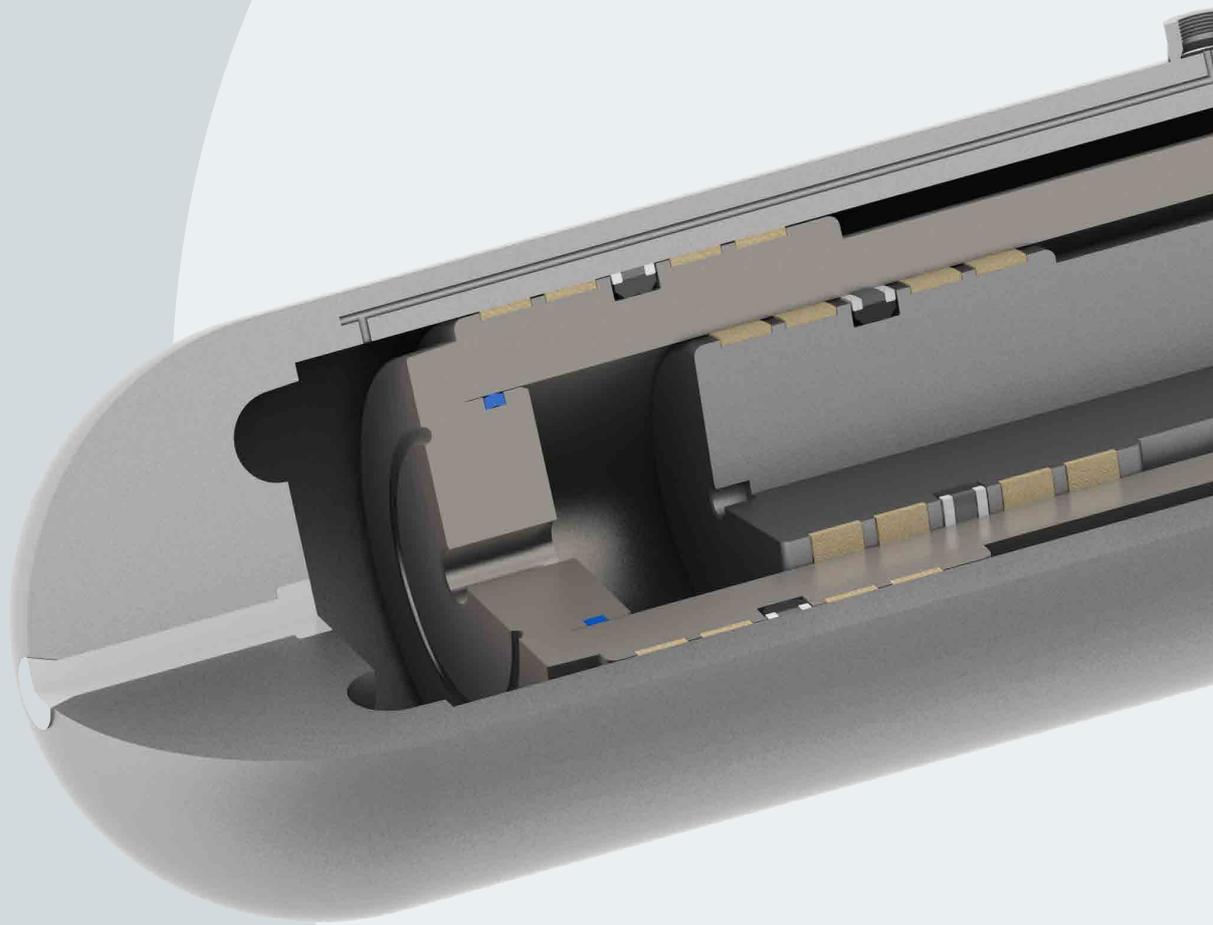
- No pressure build up between the primary and secondary seal
- High wear resistance
- Low friction

Sealing Configurations for Mining Industry

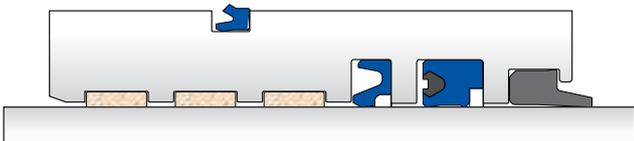
Configuration K48-K75



- High wear and extrusion resistance
- Excellent guiding and sealing performance
- Simple groove design and easy installation
- Hydrolysis resistance for improved service life
- Excellent performance in high pressures
- Very good compatibility with water based hydraulic fluids
- Stick-slip free operation

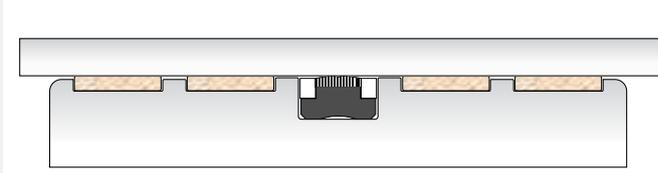


Configuration K11-K31-K29-K75-K86

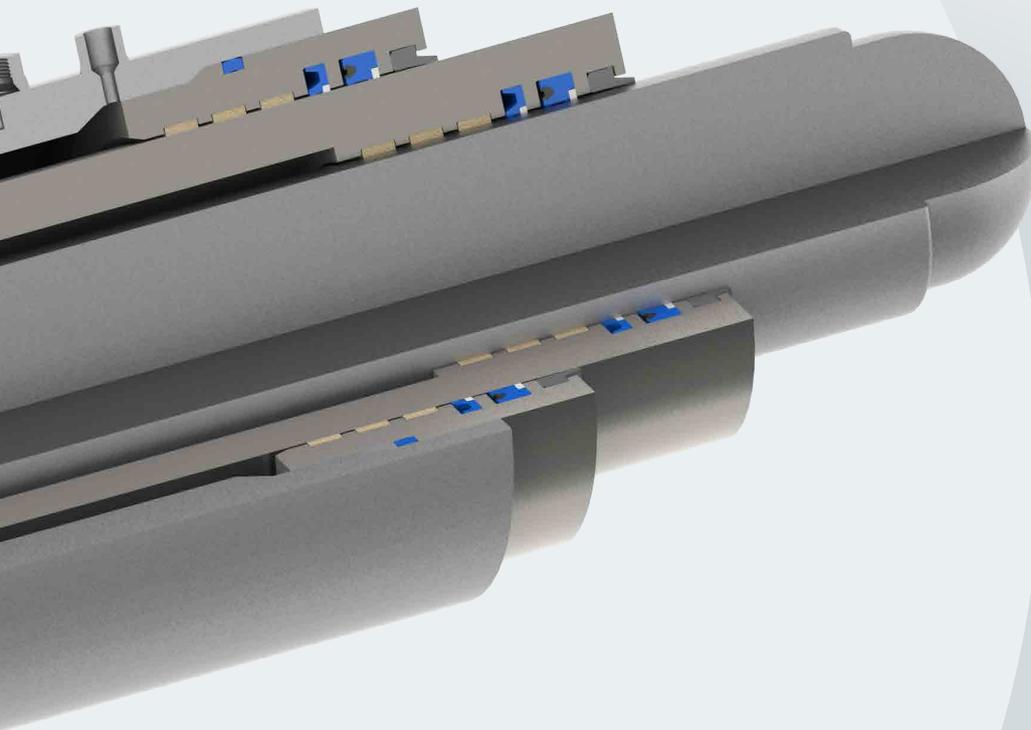


- Excellent guiding and high load capacity
- Easy installation
- High wear resistance
- Good sealing performance in unsuitable surface roughness
- Superior sealing performance in shock pressures and variable pressures

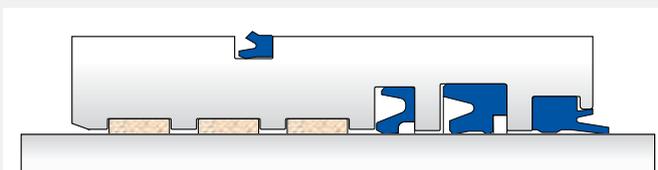
Configuration **K504-K75**



- High load bearing capacity
- Excellent guiding and sealing performance
- Superior sealing performance in shock and variable pressures
- Improve sealing gap due to the active back-up ring



Configuration **K05-K32-K29-K75-K86**



- Improve sealing gap due to the active back-up ring
- Very good wiping performance with second lip of K05
- High sealing performance in variable pressures
- Excellent guiding performance



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