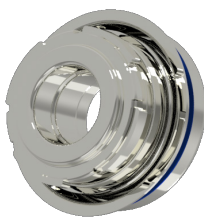


OUR PORTFOLIO FOR AXIAL SEALS

KACO offers state-of-the-art **sealing technology** for the **cooling circuit**. Whether for **water pumps or electric drive machines**, we have or develop the right solution for your application thanks to our materials and design expertise and our large product portfolio in mechanical seals.

FIELDS OF APPLICATION

- Electric drives with shaft rotor cooling
- Mechanical and electrical water pump
- General industry



	AXIA [®] lip seal	AXIA [®] mechanical seal	Mechanical seals for shaft rotor cooling
Material	PTFE, HNBR, stainless steel	SiC/SiC or HC/SiC, HNBR, stainless steel	SiC/SiC, HNBR (or FKM, AEM, EPDM), stainless steel
Speed	Up to 12,000 rpm	Up to 12,000 rpm	Up to 20,000 rpm
Size	12x20, 12x30 mm	12x30, 16x36.45 mm	16x38, 22x49, 27.5x49 mm
Rotation	Bidirectional		Oriented
Temperature range	Standard automotive temperature range		

The information and values listed here were determined under model and laboratory conditions. They do not represent any assured properties, guarantees or warranties. The validation of the products in the respective application, their performance as well as their suitability for a specific purpose is the responsibility of the user.

AXIA® LIP SEAL



A summary of the advantages

- One-step installation (modular design)
- Cost-effective and low-friction design

Sealing partner	2x PTFE-lip on stainless steel
Material	HNBR, stainless steel
Temperature range	Standard automotive temperature range
Media	Water-glycol based mixtures
Speed	Up to 12,000 rpm
Rotation	Bidirectional
Inner-Ø	8, 12 mm
Housing seat Ø	20, 30 mm
Overall length	9.3 mm
Housing seat sealant	Acrylate based

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AXIA® MECHANICAL SEAL



A summary of the advantages

- One-step installation (modular design)
- High robustness and durability
- High sealing function
- Customized solution with specific sealing function

Sealing partner	SiC/ SiC or HC/ SiC
Material	HNBR, stainless steel
Temperature range	Standard automotive temperature range
Pressure range	-0.095 to 0.2 MPa (>0.25 for HP)
Media	Water-glycol based mixtures
Speed	up to 12,000 rpm
Rotation	Bidirectional
Inner-Ø	12, 16 mm
Housing seat Ø	30, 36.45 mm
Overall length	12.5, 15.3 mm
Housing seat sealant	Acrylate based
Value added components of CS2	High pressure (HP), Anti noise seal (ANS), Extended lubrication capability (ELC)

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MECHANICAL SEALS FOR SHAFT ROTOR COOLING



A summary of the advantages

- Modular product system
- Friction optimized design
- Reliable, robust and durable
- Sealing solution suitable for high speeds

Sealing partner	SiC/SiC
Material	HNBR [or FKM, AEM, EPDM], stainless steel
Temperature range	Standard automotive temperature range
Pressure range	-0.095 to 0.4 MPa
Media	Water-glycol based mixtures
Speed	-6,000 up to 20,000 rpm
Rotation	Oriented according customer needs
Inner-Ø	16, 22, 27.5 mm
Housing seat Ø	38 to 49 mm
Overall length	17.7 mm
Tolerance compensation	± 1 mm
Housing seat sealant	Acrylate based

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