

INCORPORATING
PRODUCTS AWARDED
THE QUEENS AWARD
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2009



THE QUEEN'S AWARDS
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2009



ENVIRONMENTAL TECHNOLOGY

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LabTecta-AX™

PATENT PENDING in over 39 countries.



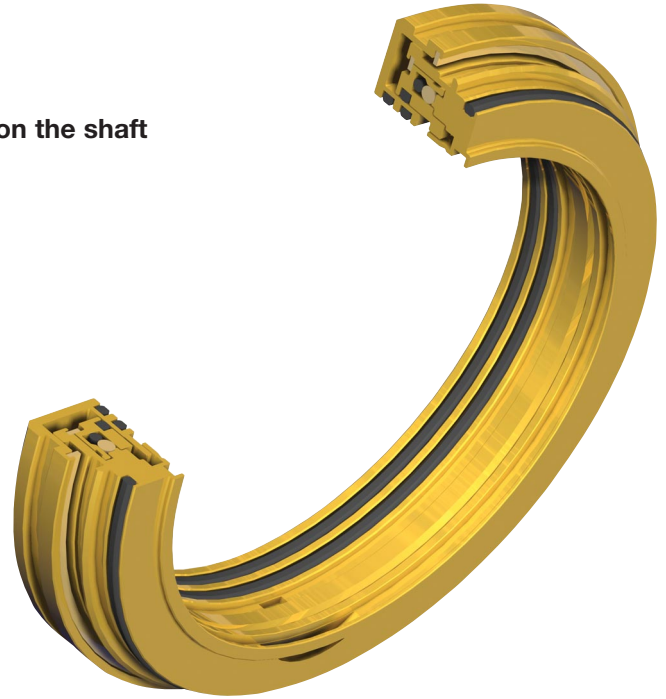
“Engineered for Shaft Movement”

LabTecta-AX™

Many industrial equipment applications have axial movement and thermal expansion of the shaft, specifically on the non-drive end. These applications present a challenge for most bearing seals because the axial movement can cause the bearing seal to contact and seize or lose its seal integrity. The AESSEAL® LabTecta-AX™ is specifically designed and engineered for axial movement applications.

Major benefits are:

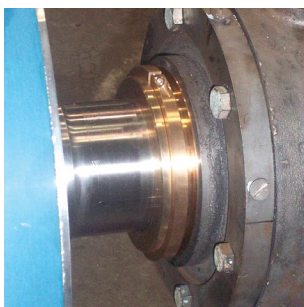
- Extended bearing and equipment life
- Better protection against contamination ingress
- More reliable sealing with no sliding or slipping on the shaft



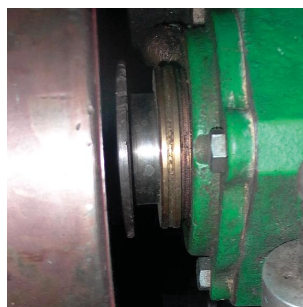
- Standard LabTecta-AX™ design accommodates $\pm 2.5\text{mm}$ ($\pm 0.100''$) of axial movement, however, it can be designed to take any amount of movement that the application dictates
- No axial sliding movement on the shaft means the rotary drive integrity is not compromised
- Superior protection against contamination ingress as the rotor to stator seal integrity is not affected by the axial movement
- Unique dual rotor design with drivelock for superior reliability

The LabTecta-AX™ design uses a unique sliding rotor that allows the seal to absorb axial movement internally. With this rotor design there is no axial sliding movement on the shaft that can cause shaft damage, rotor drive ring damage or allow contamination to pass under the drive 'O' ring.

The LabTecta-AX™ provides superior reliability by utilizing double rotor drive rings to provide a secure grip on the shaft thereby reducing the chance of shaft slip. The dual rotor design has a secure drivelock to transmit rotational drive whilst permitting axial movement.



LabTecta-AX™ installed on a breast roll (Case Ref: 3326)

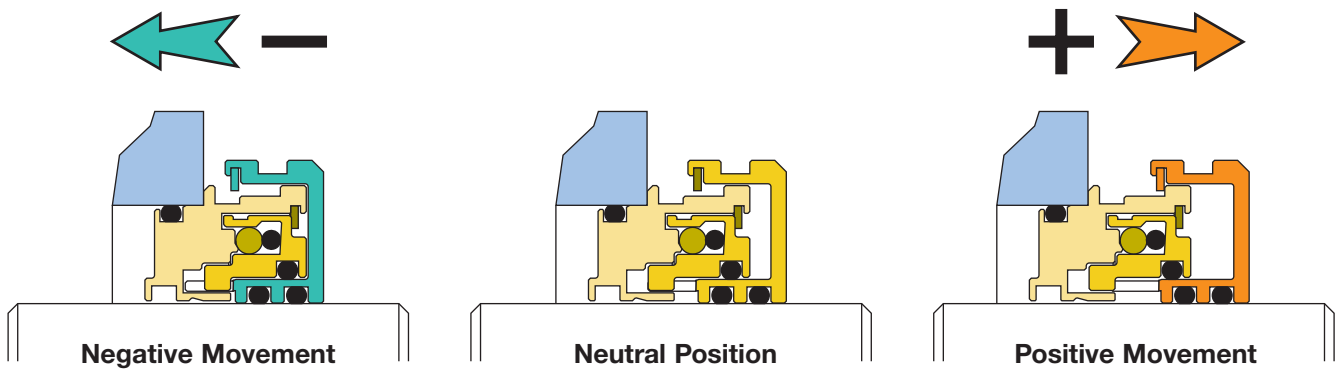


LabTecta-AX™ installed on a paper machine roll (Case Ref: 3482)



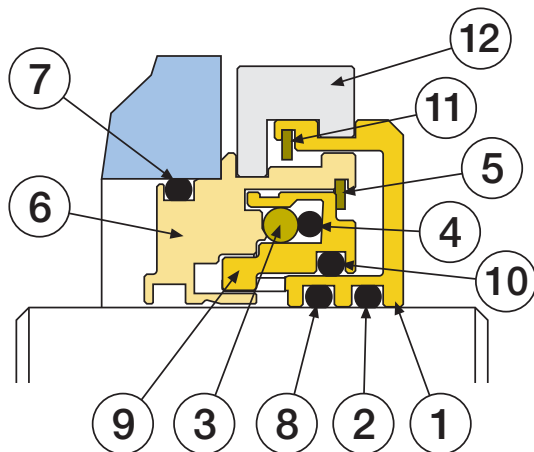
LabTecta-RDS-AX™ installed on a primary air fan (Case Ref: 3389)

LabTecta-AX™ - Engineered for Shaft Movement



LabTecta-AX™ - Installation Made Easy

The LabTecta-AX™ is designed for easy installation. For most installations, the LabTecta-AX™ is shipped with the seal preset in the correct position for installation. After assembly is complete, remove the positioning clips and the equipment is ready for start-up.

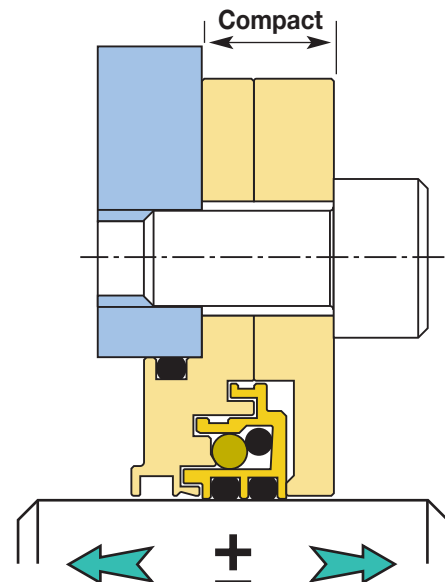


Item	Description	Material
1	LabTecta™ Rotary	Phosphor Bronze
2	Outboard Rotor O Ring	Viton®
3	Arknian™ Shut Off Device	Compound Elastomer
4	Arknian™ Energizer	Viton®
5	Face Shield	Composite Material
6	Stator Housing	Phosphor Bronze
7	Stator Housing O Ring	Viton®
8	Inboard Rotor O Ring	Viton®
9	Internal Rotary	Phosphor Bronze
10	Internal Rotary O Ring	Viton®
11	Face Shield	Composite Material

LabTecta-AXX™ - For Extended Shaft Movement

- Will accept ANY amount of axial shaft movement
- Reduced outboard length for restricted space applications
- Flange mounted
- Retained rotor
- Full rotor to stator sealing integrity

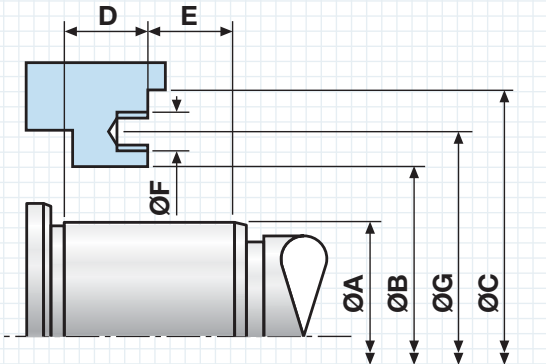
The LabTecta-AXX™ requires no setting clips for installation. The flange mounted design incorporates a retained rotor which allows the shaft to slide through the rotor 'O' rings in either axial direction. This design is ideal when outboard length is limited and the seal must accommodate a great amount of axial movement, as found in refiner applications.



LabTecta-AX™ - Designed for your equipment

Sketch Housing Dimensions

Either use the "standard" diagram provided or sketch your own below.



Dimensions:

ØA (Shaft Ø): E (First Obstruction):
 ØB (Housing Bore Ø): ØF (Bolt Ø):
 ØC (First Obstruction on Face): ØG (Bolt Circle Ø):
 D (Max. Insertion):

Application Data:

Equipment Type: Shaft Horizontal or Vertical:
 Speed: Bearing Type:
 Lubrication Type/System: Max. Axial Movement: [+] [-]
 from Start-up Position

Complete the information above and send to:

UK Fax: +44 (0) 1709 720788 USA Fax: +1 865 531 0571 E-mail: sales@labtecta.com

Further information about the AESSEAL® LabTecta™ range is available in the standard LabTecta™ brochure.
 Email sales@labtecta.com to request a copy or download it from our website - www.labtecta.com

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY.
 FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.



USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



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Reference Issue • L-UK/US-LABTECTA-AX-04