

# LabTecta<sup>®</sup>AH

Bearing protection suitable for use with Warman<sup>®</sup> AH<sup>®</sup> pumps



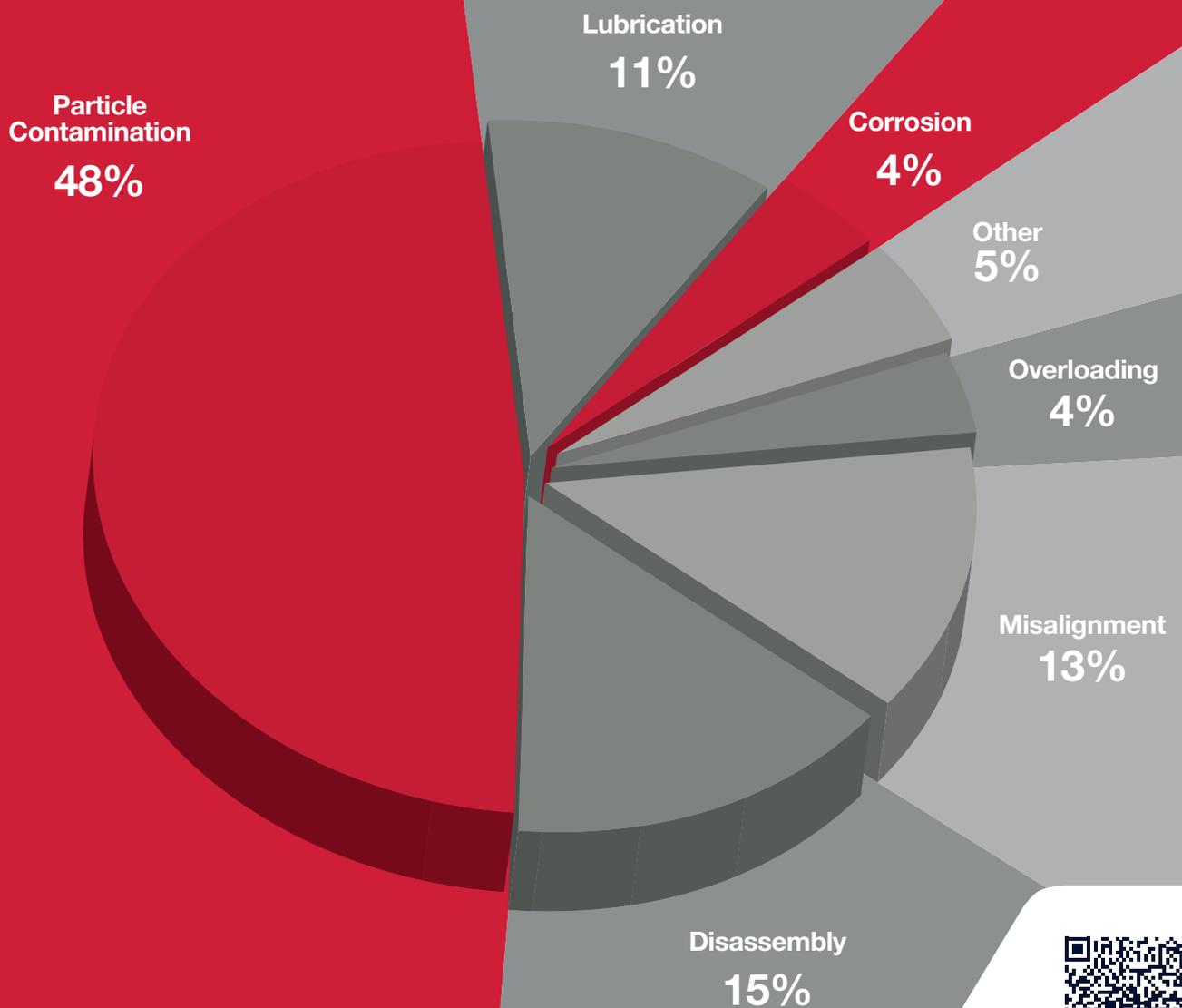
- Advanced labyrinth seal design
- Robust heavy duty design
- Maintenance-free
- IP66 & IP69K ingress protection
- Proven to increase equipment reliability



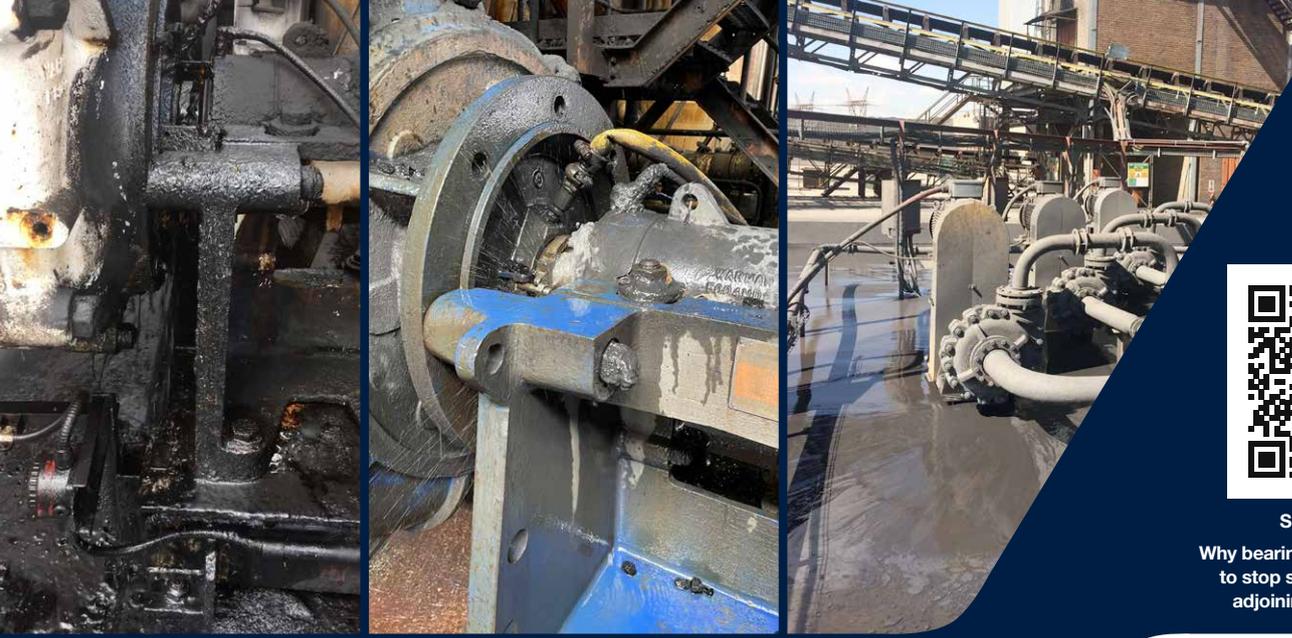
## Eliminate the cause of over 50% of bearing failures

A major study into equipment reliability has shown 52% of all bearing failures are due to particle contamination and corrosion caused by water contamination.

The LabTecta® bearing protection range can reduce bearing oil contamination from 83% to 0.0003% significantly reducing bearing failure, which represents 20.8% of all rotating equipment failures.



The LabTecta®AH has been specifically designed for the Warman®AH® pump range



Slurry Leakage

Why bearing protection is needed to stop slurry getting into the adjoining bearing housing

## LabTecta®AH Features & Benefits

- Advanced labyrinth seal design
- PTFE grease inhibitor band for superior egress protection
- Robust heavy duty design
- Shut-off valve to prevent contamination from bearing chamber breathing
- Proven to increase equipment reliability
- Full range of end covers and stub shafts also available



LabTecta® installed on equipment

## LabTecta®AH uses IP66 and IP69K technology

### Ingress Protection code rating .....

The premier third-party standard for Ingress Protection.

### Protection Rating against solids .....

**Level 6** — Defined as “No ingress of dust; complete protection against contact.”

### Protection Rating against water .....

**Level 6** — Defined as “Water projected in powerful jets (0.5” / 12.5mm nozzle) against the enclosure from all practicable angles shall have no harmful effects”. Tested with at least 26 US gallons (100 litres) per minute for at least 3 minutes, while equipment is both static & rotating.

### Protection Rating against water .....

**Level 9K** — 80°C / 176°F Water jet at 80 to 100bar (1160 to 1450psi) and flow rate of 14 to 16c/m (3 to 3.5 gall/hr) from a distance of 10 to 15cm (3.9 to 5.9”) at 0, 40°, 60° and 90° for 30s each (DIN40050 Part 9 testing)

# IP 66/9K

## Dynamic Lift O-ring:

LabTecta®AH uses dynamic lift technology to prevent premature bearing failure.

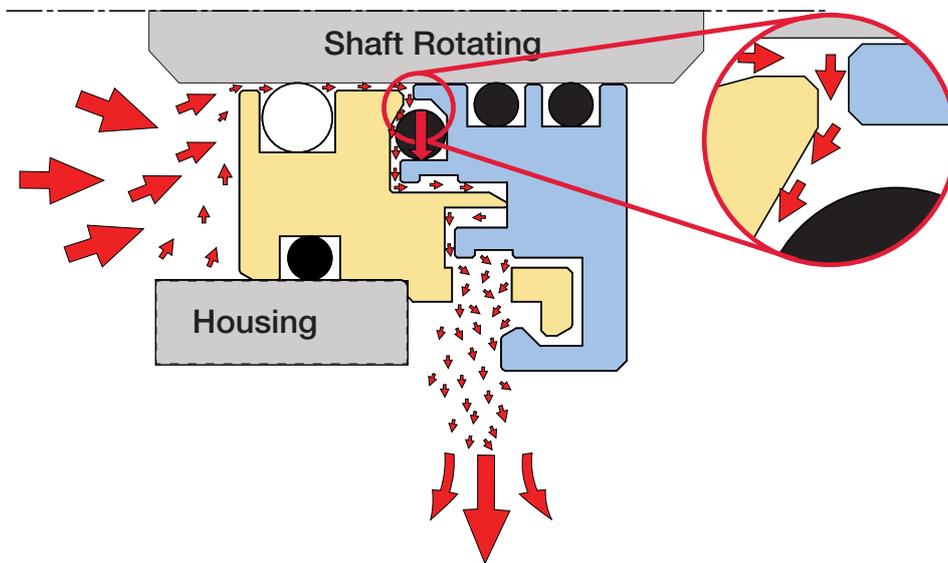
As the equipment rotates, centrifugal force causes a temporary micro gap to be created, (allowing the expansion of the oil / air mixture in the bearing housing).

When equipment stops, the centrifugal force ceases and the micro-gap is closed. This stops atmosphere from being sucked back into the bearing-housing, preventing moisture laden air from coming in.



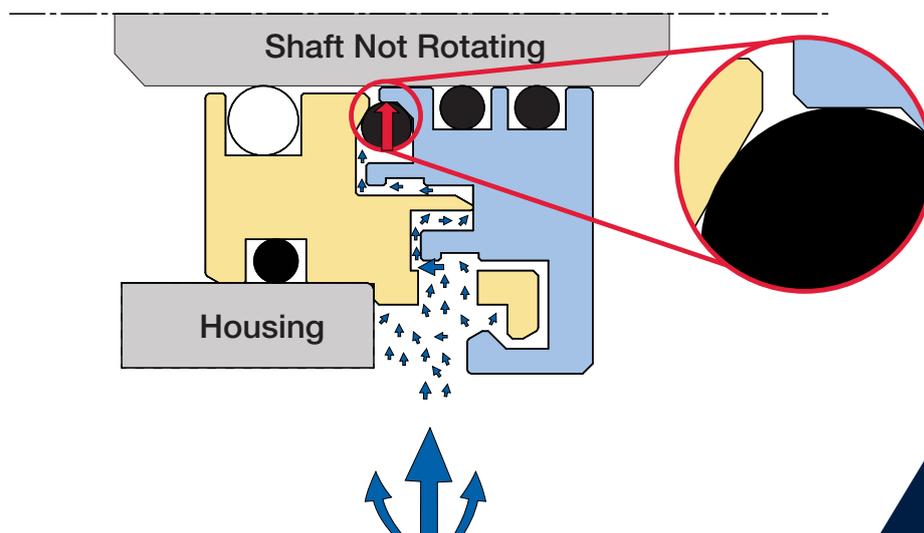
### Essential Micro-Gap When Rotating

During equipment rotation a micro-gap is created, allowing equipment to breathe.



### Effective Vapour-Seal When Not Rotating

Once equipment stops the micro-gap closes, forming a perfect seal. Atmosphere and water vapour are prevented from entering the bearing chamber.



## Bearing Protection suitable for use with Warman® AH® Pumps

- Full range of end covers and stub shafts available
- Manufactured components or drawings can be supplied
- Drawings can be use for modification of OEM equipment
- Proven to increase equipment reliability



View the AESSEAL® bearing tube end cover modification guide for Weir Warman® AH® pumps here.



End Cover



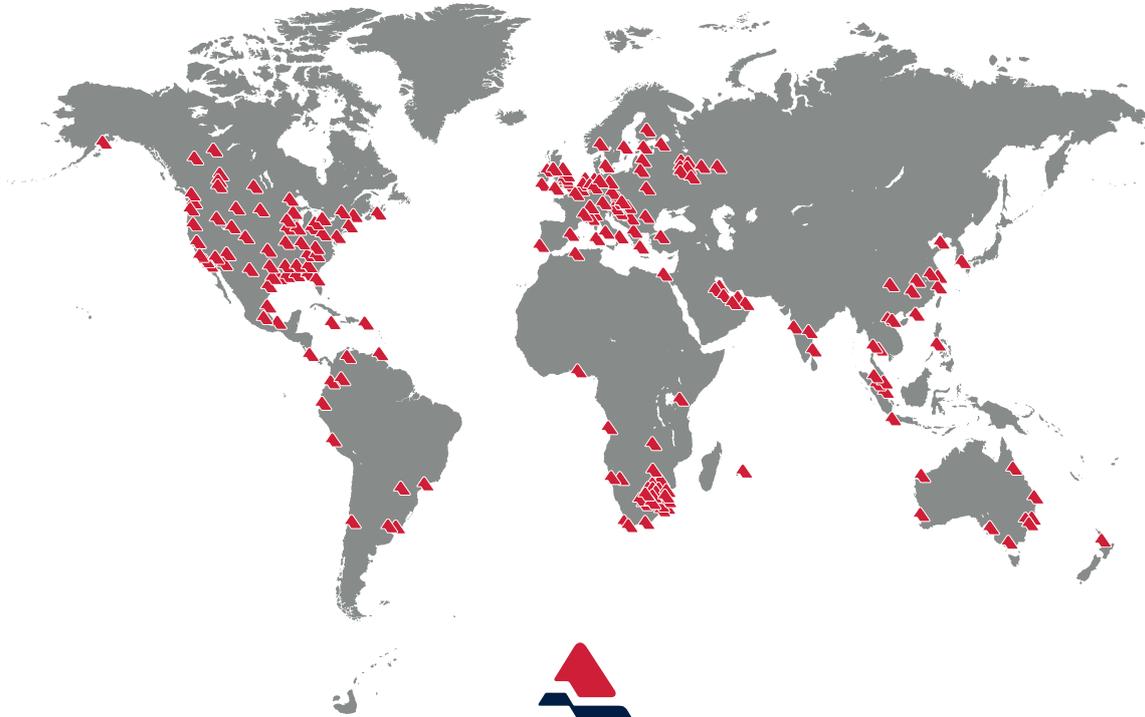
Spacer Sleeve

Bearing Assembly	End	End Cover Stock Code	Spacer Sleeve Stock Code	Shaft size (mm)	Housing bore (mm)	LabTecta®AH Stock Code
B005M	BOTH	L1-070-02B---WAR/01A	L1-050-01B---WAR/01A	50	70	LM0500SP001M0700W---
C005M	BOTH	L1-086-02C---WAR/01A	L1-060-01C---WAR/01A	60	86	LM0600SP001M0860W---
CC005M	PUMP	L1-086-02CC---WAR/01A	L1-060-01CC---WAR/01A	60	86	LM0600SP001M0860W---
	DRIVE	L1-086-02CCD-WAR/01A	L1-060-01CCD-WAR/01A	60	86	LM0600SP001M0860W---
CAM005M	BOTH	L1-086-02C---WAR/01A	L1-060-01C---WAR/01A	60	86	LM0600SP001M0860W---
CCAM005M	PUMP	L1-086-02CC---WAR/01A	L1-060-01CC---WAR/01A	60	86	LM0600SP001M0860W---
	DRIVE	L1-086-02CCD-WAR/01A	L1-060-01CCD-WAR/01A	60	86	LM0600SP001M0860W---
D005M	BOTH	L1-111-02D---WAR/01A	L1-085-01D---WAR/01A	85	111	LM0850SP001M1110W---
DD005M	PUMP	L1-111-02DD---WAR/01A	L1-085-01DD---WAR/01A	85	111	LM0850SP001M1110W---
	DRIVE	L1-111-02DDD-WAR/01A	L1-085-01DDD-WAR/01A	85	111	LM0850SP001M1110W---
DAM005M	BOTH	L1-111-02D---WAR/01A	L1-085-01D---WAR/01A	85	111	LM0850SP001M1110W---
DDAM005M	PUMP	L1-111-02DD---WAR/01A	L1-085-01DD---WAR/01A	85	111	LM0850SP001M1110W---
	DRIVE	L1-111-02DDD-WAR/01A	L1-085-01DDD-WAR/01A	85	111	LM0850SP001M1110W---
E005M	BOTH	L1-126-02E---WAR/01A	L1-100-01E---WAR/01A	100	126	LM1000SP001M1260W---
EE005M	PUMP	L1-153-02EE---WAR/01A	L1-127-01EE---WAR/01A	127	153	LM1270SP001M1530W---
	DRIVE	L1-126-02EED-WAR/01A	L1-100-01EED-WAR/01A	100	126	LM1000SP001M1260W---
EAM005M	BOTH	L1-126-02E---WAR/01A	L1-100-01E---WAR/01A	100	126	LM1000SP001M1260W---
EEAM005M	PUMP	L1-153-02EE---WAR/01A	L1-127-01EE---WAR/01A	127	153	LM1270SP001M1530W---
	DRIVE	L1-126-02EED-WAR/01A	L1-100-01EED-WAR/01A	100	126	LM1000SP001M1260W---
F005M	BOTH	L1-158-02F---WAR/01A	L1-127-01F---WAR/01A	127	158.7	LM1270SP001M1587W---
FF005M	PUMP	L1-176-02FF---WAR/01A	L1-152-01FF---WAR/01A	152.4	176.7	LM1524SP001M1767W---
	DRIVE	L1-176-02FFD-WAR/01A	L1-152-01FFD-WAR/01A	152.4	176.7	LM1524SP001M1767W---
FAM005M	PUMP	L1-158-02FAM-WAR/01A	L1-127-01FAM-WAR/01A	127	158.7	LM1270SP001M1587W---
	DRIVE	L1-158-02F---WAR/01A	L1-127-01F---WAR/01A	127	158.7	LM1270SP001M1587W---
FRS005M	PUMP	L1-158-02FRS-WAR/01A	L1-127-01FRS-WAR/01A	127	158.7	LM1270SP001M1587W---
	DRIVE	L1-158-02F---WAR/01A	L1-127-01F---WAR/01A	127	158.7	LM1270SP001M1587W---
FFAM005M	PUMP	L1-176-02FFAMWAR/01A	L1-152-01FFAMWAR/01A	152.4	176.7	LM1524SP001M1767W---
	DRIVE	L1-176-02FFD-WAR/01A	L1-152-01FFD-WAR/01A	152.4	176.7	LM1524SP001M1767W---
FFRS005AMX	PUMP	L1-176-02FFRSWAR/01A	L1-152-01FFRSWAR/01A	152.4	176.7	LM1524SP001M1767W---
	DRIVE	L1-176-02FFD-WAR/01A	L1-152-01FFD-WAR/01A	152.4	176.7	LM1524SP001M1767W---
G005M	PUMP	L1-209-02G---WAR/01A	L1-177-01G---WAR/01A	177.8	209.5	LM1778SP001M2095W---
	DRIVE	L1-209-02GD---WAR/01A	L1-177-01GD---WAR/01A	177.8	209.5	LM1778SP001M2095W---
GAM005M	PUMP	L1-209-02G---WAR/01A	L1-177-01G---WAR/01A	177.8	209.5	LM1778SP001M2095W---
	DRIVE	L1-209-02GD---WAR/01A	L1-177-01GD---WAR/01A	177.8	209.5	LM1778SP001M2095W---
GAM005M-1	PUMP	L1-209-02GH---WAR/01A	L1-177-01GH---WAR/01A	177.8	209.5	LM1778SP001M2095W---
	DRIVE	L1-209-02GD---WAR/01A	L1-177-01GD---WAR/01A	177.8	209.5	LM1778SP001M2095W---
GP005M	PUMP	L1-209-02G---WAR/01A	L1-177-01G---WAR/01A	177.8	209.5	LM1778SP001M2095W---
	DRIVE	L1-209-02GP---WAR/01A	L1-177-01GP---WAR/01A	177.8	209.5	LM1778SP001M2095W---
GG005-2	PUMP	L1-234-02GG---WAR/01A	L1-203-01GG---WAR/01A	203.2	234.8	LM2032SP001M2348W---
	DRIVE	L1-222-02GGD-WAR/01A	L1-190-01GGD-WAR/01A	190.5	222.2	LM1905SP001M2222W---
HG005	PUMP	L1-260-02HG---WAR/01A	L1-228-01HG---WAR/01A	228.6	260.3	LM2286SP001M2603W---
	DRIVE	L1-260-02HG---WAR/01A	L1-228-01HG---WAR/01A	228.6	260.3	LM2286SP001M2603W---
S005M	PUMP	L1-176-02S---WAR/01A	L1-152-01S---WAR/01A	152.4	176.7	LM1524SP001M1767W---
	DRIVE	L1-176-02SD---WAR/01A	L1-152-01SD---WAR/01A	152.4	176.7	LM1524SP001M1767W---
T005	PUMP	L1-222-02T---WAR/01A	L1-190-01T---WAR/01A	190.5	222.2	LM1905SP001M2222W---
	DRIVE	L1-222-02T---WAR/01A	L1-190-01TD---WAR/01A	190.5	222.2	LM1905SP001M2222W---

Please verify end cover and spacer sleeve dimensions prior to ordering.

View the PDF drawings for the adaptive end plates and sleeves here.





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Always take safety precautions:

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