

# High Temperature Bearings up to 450°



PH: (800) 882-8642 • FAX: (847) 759-0630  
www.amibearings.com

All Housing Styles and Hi-Temp Bearings up to 450° in Stock!



# Hi-Temp Grease Alone, Does Not Make a High-Temp Bearing!!!

## ● HIGH TEMPERATURE GREASES

The Lubrication! This is what some bearing manufacturers consider to be the only difference between a standard and high-temp insert. **THE USE OF HIGH-TEMP GREASE ALONE DOES NOT CREATE A HIGH-TEMP BEARING INSERT.** For **AMI** it is one of the many important elements that make up a *true* high-temp bearing. Listed below are the greases used in **AMI's** C4HR5 and C4HR23 bearing units...

**C4HR5** = Max bearing operating temp (392°F)

*Yukon Super-Lube No. 3* / Oil Research Industrial, LTD.

- \*soap based (compound)
- \*max. operating temperatures of the grease.....+392°F

**C4HR23** = Max bearing operating temp (446°F)

*Noxlub BF4026* / Nok Klubber Co., LTD.

- \*fluoride base (proprietary mixture)
- \*max. operating temperatures of the grease.....+536°F

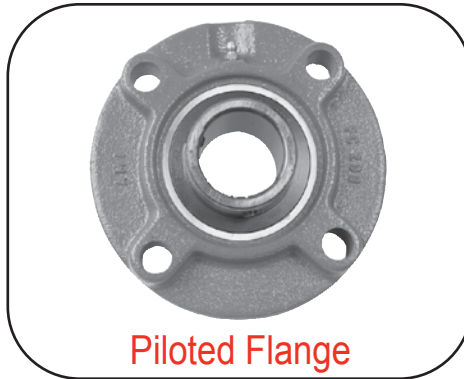
## ● INTERNAL CLEARANCE

In the manufacturing of ball bearings, it is a standard practice for **AMI** to assemble its rings and balls with a specified internal clearance. In the case of high-temp inserts, internal clearance is even more important in compensating for thermal expansion of bearings, shafts, and housings.

**AMI** uses an internal clearance standard of (**C4**) on all of its high-temp inserts.

## ● SILICONE RUBBER SEALS

Most standard units are supplied with a nitrile rubber seal. Nitrile rubber is an excellent seal at temperatures ranging from 0 to 212 degrees F. Soon after that temperature, nitrile



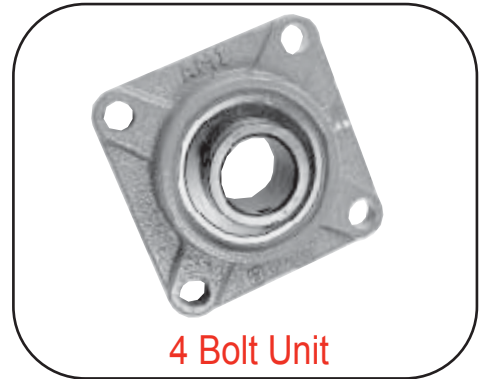
Pillowed Flange



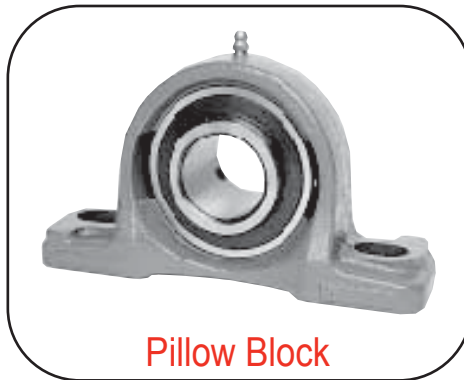
Take Up Unit



Hanger



4 Bolt Unit



Pillow Block

rubber starts to breakdown... Leaving no sealing element to retain the high-temp lubrication. **SILICONE** seals have excellent high temperature stability, exceptional release from sticking, resistance to aging, ozone, sunlight and outstanding water repellence. The use of **SILICONE** seals insures that the high-temp lube stays where it belongs... in the bearing!

## ● ZINC ANODIZED SLINGER

In order to allow the silicone to properly do its job as a seal, **AMI** uses a special Zinc Anodized Slinger to protect it. The purpose of a slinger is not only to protect the seal, but also to provide the first line of defense for the balls and retainer against contaminants. Using a standard cold rolled steel slinger in a high-temp application may initially provide protection, but quite possibly corrode and lead to premature bearing failure. **AMI's** process of **Zinc** Anodization produces a slinger with two key attributes... Heat and Abrasion Resistance... A resistance that will maintain its properties well past the operating temperature of the bearing.

*AMI rolling element, Hi-Temp ball bearings are designed to run at elevated temperatures at various operating ranges.*



## Hi-Temperature Bearing Units up to 400°

AMI	Pillow Block Units	4 Bolt, 2 Bolt Flange Units	Take Up Units	Tap Base and Flange Units	Piloted Flange Units	
	UCP200C4HR5	UCF200C4HR5 UCFL200C4HR5	UCST200C4HR5	UCTB200C4HR5 UCFB200C4HR5	UCFCS200C4HR5 UCFCF200C4HR5	
AMI PART NUMBER	AVAILABLE SIZES	PRICE	PRICE	PRICE	PRICE	
201-204	12mm, 15mm, 17mm, 20mm, 1/2" - 3/4"	82.30	83.10	89.90	99.00	94.60
205	25mm, 7/8" - 1"	94.70	95.90	107.60	111.70	109.10
206	30mm, 1-1/8" - 1-1/4"	113.60	114.60	133.00	153.90	123.60
207	35mm, 1-1/4" - 1-7/16"	135.40	138.10	164.30	176.60	148.00
208	40mm, 1-1/2"	159.30	162.50	195.10	198.20	175.00
209	45mm, 1-5/8" - 1-3/4"	179.20	182.50	220.70	217.00	200.40
210	50mm, 1-7/8" - 2"	205.30	204.30	273.80	250.40	218.50
211	55mm, 2" - 2-3/16"	262.80	264.30	356.60	-	299.90
212	60mm, 2-1/4" - 2-7/16"	331.40	329.30	450.60	-	358.00
213	65mm, 2-1/2"	397.80	397.80	560.80	-	414.10
214	70mm, 2-11/16" - 2-3/4"	465.60	-	-	-	539.80
215	75mm, 2-15/16" - 3"	534.20	-	-	-	656.50
216	80mm	633.90	-	-	-	731.40
217	85mm	769.40	-	-	-	963.90

## Hi-Temperature Bearing Units up to 450°

AMI	Pillow Block Units	4 Bolt, 2 Bolt Flange Units	Take Up Units	Tap Base and Flange Units	Piloted Flange Units	
	UCP200C4HR23	UCF200C4HR23 UCFL200C4HR23	UCST200C4HR23	UCTB200C4HR23 UCFB200C4HR23	UCFCS200C4HR23 UCFCF200C4HR23	
AMI PART NUMBER	AVAILABLE SIZES	PRICE	PRICE	PRICE	PRICE	
201-204	12mm, 15mm, 17mm, 20mm, 1/2" - 3/4"	149.10	149.90	156.70	165.90	161.50
205	25mm, 7/8" - 1"	173.20	174.40	186.20	190.20	187.60
206	30mm, 1-1/8" - 1-1/4"	206.20	207.20	225.50	246.40	216.10
207	35mm, 1-1/4" - 1-7/16"	248.10	250.90	277.10	289.40	260.80
208	40mm, 1-1/2"	291.60	294.90	327.40	330.50	307.30
209	45mm, 1-5/8" - 1-3/4"	328.30	331.20	369.70	366.10	349.40
210	50mm, 1-7/8" - 2"	370.20	369.20	438.70	415.30	383.40
211	55mm, 2" - 2-3/16"	478.80	480.30	572.60	-	515.90
212	60mm, 2-1/4" - 2-7/16"	603.90	601.80	745.10	-	630.50
213	65mm, 2-1/2"	721.80	721.80	884.90	-	738.20
214	70mm, 2-11/16" - 2-3/4"	916.90	973.40	-	-	991.10
215	75mm, 2-15/16" - 3"	1059.30	1135.10	-	-	1181.60

## Hi-Temperature Bearing Inserts

AMI	UC200C4HR5 (up to 400°)		UC200C4HR23 (up to 450°)	
	AMI PART NUMBER	AVAILABLE SIZES	PRICE	PRICE
201-204	12mm, 15mm, 17mm, 20mm, 1/2" - 3/4"	66.90	133.70	
205	25mm, 7/8" - 1"	78.60	157.10	
206	30mm, 1-1/8" - 1-1/4"	92.60	185.10	
207	35mm, 1-1/4" - 1-7/16"	112.80	225.50	
208	40mm, 1-1/2"	132.30	264.70	
209	45mm, 1-5/8" - 1-3/4"	149.00	298.10	
210	50mm, 1-7/8" - 2"	164.90	329.80	
211	55mm, 2" - 2-3/16"	216.00	432.00	
212	60mm, 2-1/4" - 2-7/16"	272.50	545.00	
213	65mm, 2-1/2"	324.00	648.10	
214	70mm, 2-11/16" - 2-3/4"	376.10	827.40	
215	75mm, 2-15/16" - 3"	437.60	962.70	
216	80mm, 3-1/8"	509.80	1121.50	
217	85mm, 3-1/4"	614.90	1352.70	

All Housing Styles and Hi-Temp Bearings up to 450° in Stock!

# Here's how **AMI** delivers high-temp performance!

● **HI-TEMP BEARING UNITS UP TO 450° IN STOCK... IN ALL HOUSING STYLES AND SIZES INCLUDING METRIC.**

Why pay for a bearing that is capable of performance up to 450° when all you require is a running temperature of 250°? Worse yet... if you require performance at even higher temperatures, why settle for a bearing that is designed not to exceed temperatures of 400°? We have what you need in stock... all sizes, all housing styles, metric too... up to 450°!

● **ONLY SPECIAL SEALS ARE USED TO WITHSTAND HIGH TEMPERATURES!**

Why experience premature bearing failure from loss of lubrication and deteriorating seals? We install only hi-temperature seals that are designed and tested to perform long term.

● **THE CORRECT LUBRICANTS ARE USED TO PREVENT BEARING SEIZURE**

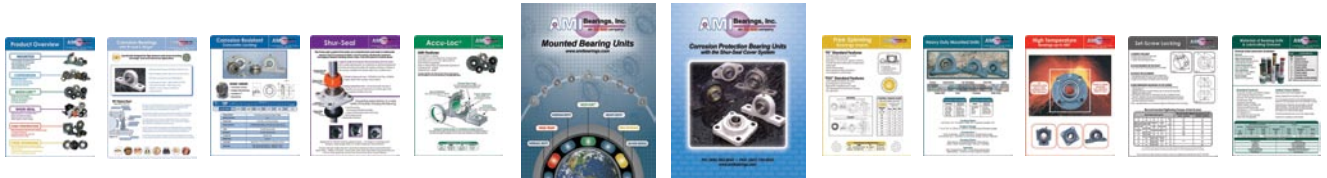
Our bearing units are pre-lubricated with greases that will remain self-lubricating in extremely high temperatures.

● **EXPANSION PILLOW BLOCK HOUSINGS DESIGNED FOR LINEAR EXPANSION OF YOUR SHAFT!**

We also offer fixed float applications with SH style set screws, positioned within a keyed shaft, to allow for expansion!

● **NEED HOUSINGS WITH PURGE PLUGS?**

Call us for a variety of housing styles with purge plugs on a made to order basis!



Need information on these AMI products? Call for your FREE copy and the name of your nearest distributor.



**AMI Bearings, Inc.**

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Visit our website at: [www.amibearings.com](http://www.amibearings.com)