

HIGH TEMPERATURE BEARINGS UP TO 450° 400° and 450° Units From Stock



ALL
HOUSING STYLES
AND HI-TEMP
BEARINGS UP TO
450° IN STOCK!

MADE TO ORDER
MOUNTED
BALL-BEARING
UNITS TO 750°!



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 BN4020* / Nok Klubber Co., LTD.

*fluoride base (proprietary mixture)

*max. operating temperatures of the grease.....+536°F

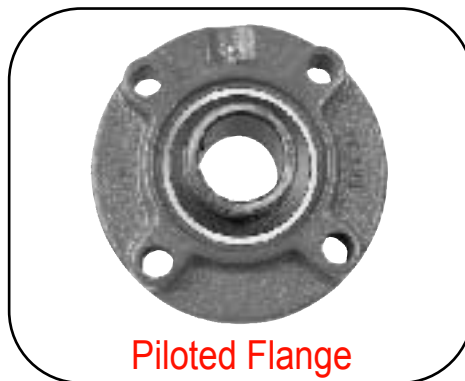
● INTERNAL CLEARANCE

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.

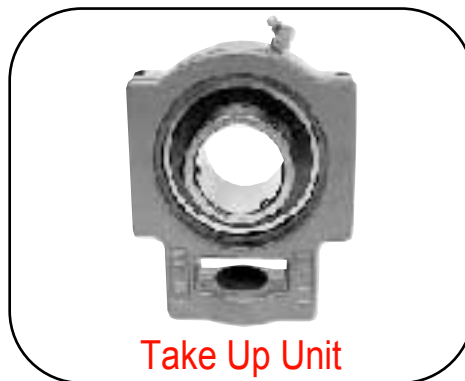
AMI uses an internal clearance standard of (C4) on all of its high-temp inserts.

● 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



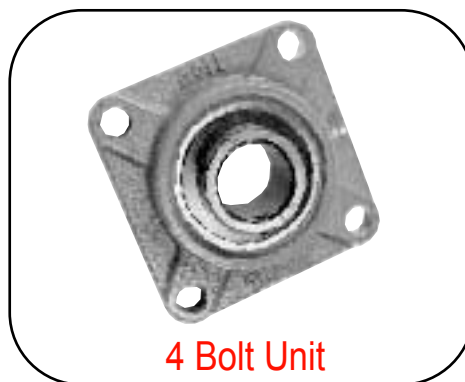
Pilot Flange



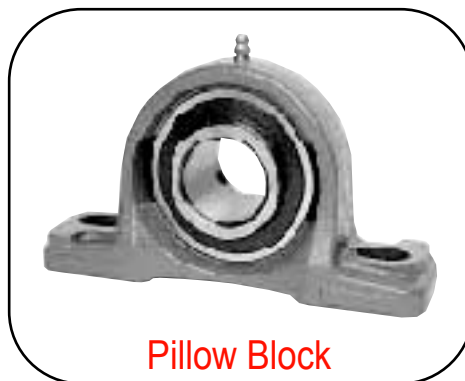
Take Up Unit



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	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
218	90mm	917.50	-	-	-	1057.50

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	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°)
		PRICE □ □	PRICE
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
218	90mm, 3-1/2"	734.10	1615.10

**All Housing Styles and Hi-Temp Bearings up to 450° in Stock!
Made to Order Mounted Ball-Bearing Units to 750°!**

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°!

- **SPECIAL HI-TEMP BEARINGS MADE TO ORDER UP TO 750°!**

If you need hi-temperature bearings for special needs up to 750°, call our office. We can design a special bearing unit for your specific requirement.

- **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!

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

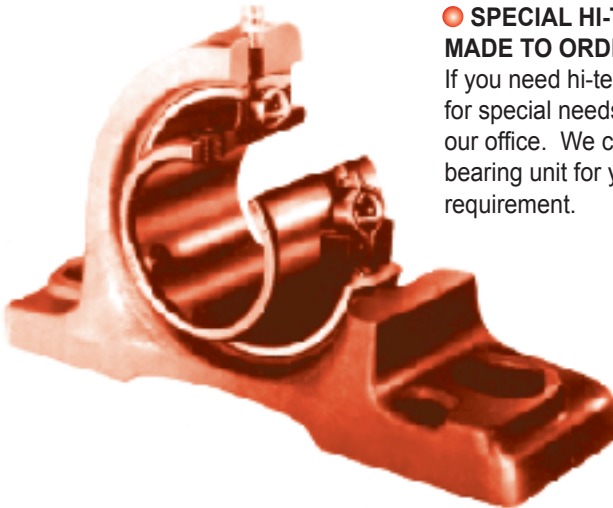
Why experience premature bearing failure from loss of lubrication and deteriorating seals? We install only hi-temperature seals that are designed and tested to perform long term.

- **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.

- **NEED HOUSINGS WITH PURGE PLUGS?**

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



AMI



Emerson Bearing
Service. Inventory. Solutions.