

Ketchie-Houston, Inc.

Manufacturers of Bearing & Power Transmission Specialties

PRODUCT GUIDE



Heavy Duty Mounted Units • Standard Duty Mounted Units
Medium Duty Mounted Units • Special Application Units
External Self Aligning Ring Bearings
Replacement Insert Bearings • Machine Units

Ketchie-Houston, Inc.
Manufacturers of Bearing & Power Transmission Specialties

To Our Valued Customers:

We are pleased to provide you with the **New Ketchie-Houston Product Guide** to mounted bearing units, external aligning ring bearings, replacement inserts and machine units.

Since the mid 1940's, Ketchie-Houston has been manufacturing and supplying industry with standard and special mounted bearing units, custom spur gears , sprockets and timing belt pulleys.

Most customers associate our company with special application units and items "discontinued" by Fafnir over the years. While this is certainly a viable part of our business, we started introducing in early 1989 a number of new product lines designed to fill the supply voids left by major manufacturers of housed bearing units.

Today, Ketchie-Houston offers the following bearing products:

- **Heavy Duty Mounted Units,**
- **Standard Duty Mounted Units**
- **Medium Duty Mounted Units - available late 1994**
- **Special Application Units**
- **External Aligning Ring Bearings - Radial and Wide Inner**
- **Replacement Inserts**
- **Machine Units**

We know you will find our new product guide a useful tool in helping you service your customer. We encourage you to take the time to review the many bearing products now available from Ketchie-Houston. Should you have requirements for bearing products not listed please contact our staff.

Sincerely,

Ed Ketchie
President,
Ketchie-Houston, Inc.

HEAVY DUTY MOUNTED UNITS

SINGLE PILLOW BLOCKS



Series	Features	Replaces	Sizes Available
KH-2300 thru KH-2308 (1)	Low Base to Center*	RAO, LAO	1 3/16 - 2 15/16
KH-2320 thru KH-2331 (1)	High Base to Center*	RSAO, LSAO, P2-300	1 3/16 - 3 15/16
KH-4703 thru KH-4713	Low Base to Center*	P300	1 7/16 - 3 15/16
KH-3052 thru KH-3070	High Base to Center**	SAO, SAOD, SAODD	15/16 - 4 15/16
KH-4052 thru KH-4065	Clarage Fan Unit*	RSAOC, LSAOC	1 3/16 - 3 7/16
KH-2225 thru KH-2233	Fixed and Float	SAOFN, SAOLN	1 3/16 - 3 3/16
KH-2265 thru KH-2279	Universal Style	SAOL	1 3/16 - 3 15/16

* Normal or high temperature seals available
 ** SAOD, SAODD units have dust seal collars



DOUBLE PILLOW BLOCKS

Series	Features	Replaces	Sizes Available
KH-3100 thru KH-3112	Double Bearing Unit*	DSAO, DSAODD	1 - 3 7/16

* DSAODD units have 2 dust seal collars



FLANGE UNITS

Series	Features	Replaces	Sizes Available
KH-2100 thru KH-2110 (1)	Four Bolt Flange*	RCJO, LCJO	1 3/16 - 3 15/16

* Normal or High Temperature Seal Available



CYLINDRICAL CARTRIDGES

Series	Features	Replaces	Sizes Available
KH-3177 thru KH-3190	Open or Closed Type	CO	1 - 3 7/16

(1) Ductile Iron Housings Standard for Increased Strength
 NOTE: Items in Bold Print are New since 1989

MOTOR CARTRIDGES



Series	Features	Replaces	Sizes Available
KH-4001 thru KH-4013	Open or Closed Type	MC	1 - 3 7/16

STANDARD DUTY MOUNTED UNITS

SINGLE PILLOW BLOCKS

LOW BASE TO CENTER HEIGHT

Series	Features	Replaces	Sizes Available
KH-1301 thru KH-1312 (1)	Wide Inner Ring*	RAK, LAK	5/8 - 2 15/16
KH-4402 thru KH-4408 (1)	Triple Lip Seals	TAK	1 - 2 3/16
KH-4100 thru KH-4108 (1)	Extended Inner Ring	VAK	5/8 - 2 3/16
KH-4621 thru KH-4632 (1)	Wide Inner Ring**	YAK	5/8 - 2 3/16

* Normal or high temperature seals available
 ** With Set Screw Lock



HIGH BASE TO CENTER HEIGHT

Series	Features	Replaces	Sizes Available
KH-1321 thru KH-1331 (1)	Wide Inner Ring*	RAS, LAS	5/8 - 2 15/16
KH-4207 thru KH-4213 (1)	Triple Lip Seals	TAS	1 - 2 3/16
KH-4100 thru KH-4117 (1)	Extended Inner Ring	VAS	5/8 - 2 3/16
KH-4641 thru KH-4651 (1)	Wide Inner Ring**	YAS	5/8 - 2 15/16
KH-4139 thru KH-4147 (1)	Extended Inner Ring**	SAS	5/8 - 2 3/16

* Normal or high temperature seals available
 ** With Set Screw Lock

SPECIAL BASE TO CENTER HEIGHT

Series	Features	Replaces	Sizes Available
KH-1361 thru KH-1372 (1)	Wide Inner Ring*	RSA, LSA	1/2 - 2 15/16
KH-3028 thru KH-3043	Wide Inner Ring**	SA, SAD, SADD	1 1/16 - 4 7/16
KH-1343 thru KH-1352	Fixed or Float*	RAKH, RAKHL, LAKH, LAKHL	1 - 2 15/16
KH-4240 thru KH-4253 (1)	Universal Style***	SAL	1 3/16 - 3 7/16

* Normal or high temperature seals available
 ** SAD, SADD units have dust seal collars
 *** Fixed or Float

(1) Ductile Iron Housings Standard for Increased Strength
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DOUBLE PILLOW BLOCKS



Series	Features	Replaces	Sizes Available
KH-4180 thru KH-4185 (1) KH-3075 thru KH-3091	Double Bearing Unit Double Bearing Unit*	DRNR, CC DSA, DSADD	$\frac{15}{16}$ - $2 \frac{3}{16}$ $\frac{1}{2}$ - $3 \frac{15}{16}$

* DSADD units have (2) dust seal collars

FLANGE UNITS

TWO BOLT

Series	Features	Replaces	Sizes Available
KH-1202 thru KH-1209 (1)	Wide Inner Ring*	RCJT, LCJT	$\frac{3}{4}$ - $2 \frac{3}{16}$
KH-4232 thru KH-4238 (1)	Triple Lip Seals	TCJT	1 - $2 \frac{3}{16}$
KH-4130 thru KH-4137 (1)	Extended Inner Ring	VCJT	$\frac{3}{4}$ - $2 \frac{3}{16}$
KH-4681 thru KH-4689 (1)	Wide Inner Ring**	YCJT	$\frac{1}{2}$ - $2 \frac{15}{16}$
KH-4159 thru KH-4167	Extended Inner Ring**	SCJT	$\frac{3}{4}$ - $2 \frac{3}{16}$
KH-4262 thru KH-4265 (1)	Compact Design***	FLCT	$\frac{3}{4}$ - $1 \frac{7}{16}$

* Normal or high temperature seals available

** With Set Screw Lock

*** Extended Inner Ring

FOUR BOLT

Series	Features	Replaces	Sizes Available
KH-1101 thru KH-1112 (1)	Wide Inner Ring	RCJ, LCJ	$\frac{1}{2}$ - $2 \frac{15}{16}$
KH-4219 thru KH-4225 (1)	Triple Lip Seals	TCJ	1 - $2 \frac{3}{16}$
KH-4119 thru KH-4127 (1)	Extended Inner Ring	VCJ	1 - $2 \frac{3}{16}$
KH-4661 thru KH-4672 (1)	Wide Inner Ring**	YCJ	$\frac{1}{2}$ - $2 \frac{3}{16}$
KH-4149 thru KH-4157	Extended Inner Ring**	SCJ	$\frac{1}{2}$ - $2 \frac{3}{16}$
KH-4170 thru KH-4178	Piloted	RFC	$\frac{7}{8}$ - $2 \frac{15}{16}$
EU-1 thru EU-2	Ductile Iron	GRFD, GRFDR, GVFD, GVFDR	1 $\frac{15}{16}$



(1) Ductile Iron Housings Standard for Increased Strength
NOTE: Items in Bold Print are New since 1989



CYLINDRICAL CARTRIDGES



Series

KH-4024 thru KH-4034 (1)
KH-4034 thru KH-4039

Features

Wide Inner Ring*
Open or Closed Type

Replaces

RC, LC
C

Sizes Available

$\frac{1}{2}$ - $2 \frac{7}{16}$
 $2 \frac{7}{16}$ - $3 \frac{7}{16}$

* Normal or high temperature seals available



TAKE-UP UNITS

Series

KH-4190 thru KH-4189 (1)
KH-4422 thru KH-4428 (1)
KH-4602 thru KH-4609 (1)

Features

Wide Inner Ring
Triple Lip Seals
Extended Inner Ring

Replaces

RTU, LTU*
TTU
VTU

Sizes Available

$\frac{3}{4}$ - $2 \frac{15}{16}$
1 - $2 \frac{3}{16}$
 $\frac{3}{4}$ - $2 \frac{3}{16}$

* Normal or high temperature seals available



OTHER UNITS

ECCENTRIC UNITS

Series

KH-3000 thru KH-3018

Features

Off Center Base for Shaking
and Vibrating Motion

Replaces

Eccentric Units

Sizes Available

1 - $2 \frac{1}{4}$

LINESHAFT OR HANGER BOXES



Series

KH-3151 thru KH-3162
KH-3126 thru KH-3133

Features

Double Bearing Unit
Single Bearing Unit

Replaces

F
SCS

Sizes Available

1 $\frac{1}{8}$ - $3 \frac{7}{16}$
 $\frac{3}{4}$ - $2 \frac{3}{16}$

(1) Ductile Iron Housings Standard for Increased Strength

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MEDIUM DUTY MOUNTED UNITS

New Housed Unit Series to be introduced in late 1994. Check with Ketchie-Houston for availability.

PILLOW BLOCKS



Series
KH-4461 thru KH-4473
*With Set Screw Lock

Features
Wide Inner Ring

Replaces
SealMaster - MP

Sizes Available
1⁵/₁₆ - 4"

FLANGE UNITS

TWO BOLT

Series
KH-4481 thru KH-4486

Features
Wide Inner Ring*

Replaces
SealMaster - MFST

Sizes Available
1⁵/₁₆ - 2"



FOUR BOLT

Series
KH-4501 thru KH-4514
KH-4521 thru KH-4532

Features
Wide Inner Ring*
Piloted

Replaces
SealMaster - MSF
SealMaster - MFC

Sizes Available
1⁵/₁₆ - 4 1⁵/₁₆
1⁵/₁₆ - 4"

* With Set Screw Lock



CYLINDRICAL CARTRIDGES

Series
KH-4541 thru KH-4553
* With Set Screw Lock

Features
Wide Inner Ring*

Replaces
SealMaster - MSC

Sizes Available
1⁵/₁₆ - 4"

TAKE-UP UNITS

Series
KH-4561 thru KH-4572
* With Set Screw Lock

Features
Wide Inner Ring*

Replaces
SealMaster - MST

Sizes Available
1⁵/₁₆ - 4"



(1) Ductile Iron Housings Standard for Increased Strength
NOTE: Items in Bold Print are New since 1989

SPECIAL APPLICATION UNITS

Ketchie-Houston, Inc. has designed many special application ball and roller bearing mounted units for various types of equipment. Typical housing configurations along with shaft sizes available are listed below for your benefit.

If you have a requirement for a special application unit, please contact Ketchie-Houston.



Split Housed Unit

Available in 1 1/4" to 2 3/8" Shafts



Special Fixed & Float Unit

Available in 1" to 1 3/8" Shafts



Special Bearing Unit w/Flinger

Available in 1 3/8" to 2 1/8" Shafts



Cartridge Unit Fixed & Float

Available in 3/4", 1", 1 1/8" Shaft



Split Four Bolt Flange

Available in 1 3/8" - 2 3/8" Shaft



Four Bolt Flange Watercooled

Available in 1 3/8" Shaft



Special Flange Unit

Available in 1" to 1 3/8" Shaft



Special Two Bolt Flange

Available in 1 3/8" to 1 7/8" Shaft



Special Two Bolt Flange

Available in 1 1/8" to 1 1/2" Shaft



Triangular Flange

Available in 1 3/8" to 1 3/4" Shaft



Special Cast Iron Rod End

Available in 3/4" to 1 1/4" Shaft



Special Taped Brace Unit

Available in 1 1/8" Shaft

EXTERNAL SELF ALIGNING RING BEARINGS

RADIAL BALL BEARINGS with Self Aligning Rings



Series	Features	Replaces	Sizes Available
Light 200S	Single Row Radial Ball	200S	17 mm - 75 mm
Medium 300S*	Single Row Radial Ball	300S	40 mm - 80 mm

* Greater load capacity

WIDE INNER RING BEARINGS with Self Aligning Rings



STANDARD DUTY

Series	Features	Replaces	Sizes Available
GSWE-CCSR	Relubricateable w/Two Seals	G-KRRS	$\frac{3}{4}$ " - 2 $\frac{15}{16}$ "
SWE-CCSR	Non-Relubricateable w/ Two Seals	KRRS	$\frac{3}{4}$ " - 2 $\frac{15}{16}$ "
SWE-CSR	Non-Relubricateable w/ One Seal	KRS	$\frac{3}{4}$ " - 2 $\frac{15}{16}$ "
SWE-SR	Open Type	SM-KS	1" - 3 $\frac{7}{16}$ "



HEAVY DUTY

Series	Features	Replaces	Sizes Available
HWE-SR	Open Type	SMN-KS	1 $\frac{3}{16}$ " - 3 $\frac{15}{16}$ "

NOTE: Items in Bold Print are New since 1989

HEAVY DUTY INSERT BEARINGS



Series
GHWE-CCS
GHWE-HHS

Features
Normal Temperature Seals
High Temperature Seals

Replaces
GN-KKRB
GN-KLLB

Sizes Available
1 ³/₁₆ - 3 ¹⁵/₁₆
1 ³/₁₆ - 3 ¹⁵/₁₆

MACHINE UNITS



Series
SWE-MUS
SWE-MU
HWE-MUS
HWE-MU

Features
Standard Duty Spherical Outer Ring
Standard Duty Cylindrical Outer Ring
Heavy Duty Spherical Outer Ring
Heavy Duty Cylindrical Outer Ring

Replaces
MUB
MUA
MUOB
MUOA

Sizes Available
⁵/₈ - 4 ⁷/₁₆
⁵/₈ - 3 ¹⁵/₁₆
⁵/₈ - 3 ¹⁵/₁₆
1 ³/₁₆ - 3 ¹⁵/₁₆

KETCHIE-HOUSTON NUMBERING SYSTEM FOR INSERTS

Prefixes

- G** = Re-lubricatable Bearing
- SWE** = Standard Duty, Wide Inner Ring, Eccentric Locking Collar
- SWS** = Standard Duty, Wide Inner Ring, Set Screw Lock
- SEE** = Standard Duty, Extended Inner Ring, Eccentric Locking Collar
- SES** = Standard Duty, Extended Inner Ring, Set Screw Lock
- MWS** = Medium Duty, Wide Inner Ring, Set Screw Lock
- HWE** = Heavy Duty, Wide Inner Ring, Eccentric Locking Collar
- HWS** = Heavy Duty, Wide Inner Ring, Set Screw Lock

Numbers

- First Digit = number of full inches of bore diameter
- Last two Digits = number of 16ths of an inch of bore diameter
or
- Two digit number = bore diameter in millimeters

Suffixes

- C** = A Single Normal Operating Temperature Seal
- CC** = Two Normal Operating Temperature Seals
- H** = A Single High Temperature Seal
- HH** = Two High Temperature Seals
- T** = A Single Triple Seal
- TT** = Two Triple Lip Seals
- MU** = Machine Unit
- S** = Spherical Outer Ring O.D.
- SR** = An Alignment Ring Mounted on the Bearing
- W** = Snap wire mounted on the O.D. of the bearing
- 1,2,3,etc** = Special feature or combination of features to a standard bearing

Examples:

<u>Manufacturer P/N</u>	<u>Ketchie-Houston P/N</u>
G1107KRRB Fafnir	GSWE107CCS
GN107KLLB Fafnir	GHWE107HHS
GE35KRRB INA	GSWE35CCS
SMN107KS Fafnir	HWE107SR
MUOA 1 ⁷ / ₁₆ Fafnir	HWE107MU
MUOB 1 ⁷ / ₁₆ Fafnir	HWE107MUS
WPS107TRC Federal-Mogul	GSWE107TTS
3-17 Sealmaster	GMWS107CCS