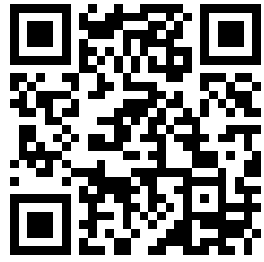

Supply and Logistics

HANDBOOK

STANDARDIZATION

H203

Superseding AF MANUAL 67-5
1 November 1954

MANUFACTURERS' SYMBOLS and DESIGNATIONS for ANTI-FRICTION BEARINGS

18 July 1956

Office of the Assistant Secretary of Defense
(Supply and Logistics)
Washington 25, D. C.

DEPARTMENT OF DEFENSE
OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
(SUPPLY AND LOGISTICS)
STANDARDIZATION DIVISION
WASHINGTON 25, D. C.

Manufacturers' Symbols and Designations
for Anti-Friction Bearings

STANDARDIZATION H203 18 July 1956

1. This handbook was developed by the Department of the Navy, Bureau of Supplies and Accounts, in accordance with established procedures.

2. This publication has been approved for printing and inclusion in the Supply and Logistics Standardization H series of handbooks.

3. This document provides basic and fundamental information on anti-friction bearings. It will provide valuable information and guidance to personnel concerned with the preparation of specifications and the procurement of bearings. The handbook is not intended to be referenced in purchase specifications except for informational purposes nor shall it supersede any specification requirements.

4. Every effort has been made to reflect the latest information on bearing products and manufacturing practices. It is the intent to review this handbook periodically to insure its completeness and currency. Those making use of this document are encouraged to report any errors discovered and any recommendations for changes or inclusions to the custodians.

5. The custodians for this Handbook are: Army, Ordnance Corps; Navy, Bureau of Supplies and Accounts; and, the Air Force.

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FOREWORD

PURPOSE AND SCOPE

This handbook is intended to serve as a guide for the uniform interpretation of commercial designations and symbols currently used by manufacturers of anti-friction bearings. These designations and symbols appear in a variety of design and supply documents such as drawings, instruction manuals, stock lists, procurement documents, etc. This document contains information that is not controlled by the Department of Defense and, by itself, shall not be used to determine anti-friction bearing applications, interchangeability, substitution, or consolidation of stock. It is intended only to assist in identifying anti-friction bearings that are not otherwise identified.

USE OF THE HANDBOOK

The following information is pertinent to proper use of this publication:

a. Knowledge of the fundamentals of identifying anti-friction bearings is of the utmost importance before this guide can be properly used.

b. The basic numbering structure of anti-friction bearings is based on the metric system, that is, the last two digits of the basic number (except in the case of bore sizes 00,01,02 and 03) when multiplied by 5 usually indicates the bore size in millimeters. The third digit from the right end of the basic bearing number usually indicates whether the bearing is light, medium, or heavy construction. There are some exceptions to the above-outlined basic bearing numbering system; for example, the 6-digit SKF bearing numbers. These 6-digit SKF numbers consist of a sequential series devised by SKF Industries, Incorporated, and have no significance in the identification of the items to which they apply. Frequently these 6-digit numbers identify the bearing as a special.

c. Many symbols used for the identification of special bearing characteristics do not actually appear on the bearing itself, but rather as part of the carton marking. For this reason, it is imperative that the carton markings of anti-friction bearings be carefully observed. Discretion must also be exercised in interpreting box markings. While box marking symbols used by various manufacturers may be similar, or even identical, the symbols should not be interpreted to mean the same, in all cases. For instance, the letter "S" immediately following the basic serial number is used by the Marlin-Rockwell Corporation to indicate the Conrad-type bearing. New Departure uses the same symbol in the same position to indicate special internal fit-up or special preload.

d. Lubrication symbols are also of the utmost importance. Items of the same basic bearing carrying different types of lubricants cannot be binned under the same stock number. When lubricant symbols do not appear as part of the box marking, it is usually safe to assume that the bearing within has been lubricated in accordance with the particular manufacturer's standard procedure. For instance, aircraft control bearings are usually pre-lubricated with a low temperature grease; open bearings are usually slushed; double shielded, double sealed or seal and shielded bearings usually carry a high temperature or high medium temperature grease.

e. The information contained herein is arranged in alphabetical sequence by manufacturer's name and alphabetically by symbol under each manufacturer. Five digit codes shown on each page refer to applicable Federal Supply Codes for Manufacturers.

MFR. **ACORN BEARING CO.** CODE **91448**

Prefix	Suffix	Definition
BT		Banded ball thrust bearing
CT		Annular ball bearing, turned cone unground
GR		Ball thrust bearing, grooved race, bronze retainer
R		Hardened steel thrust washer
X		Ball thrust bearing, flat race, bronze retainer

MFR. AETNA BALL AND ROLLER BEARING CO. CODE 00658

Prefix	Suffix	Definition
A		Special
AG		Special agricultural bearing
B		One direction ball thrust bearing, flat seat, flat raceway, bronze retainer, inch standard, light series
B		Bronze cage when the cage retains the rollers in the inner ring if the outer ring is removed
	B	Bronze cage when the cage retains the rollers in the outer ring if the inner ring is removed
C		One direction ball thrust bearing with flat seat, flat raceway, pressed steel retainer, inch standard, light series
E		One direction banded ball thrust bearing with flat seat, grooved raceway and full complement of balls, inch standard, medium series
F		One direction ball thrust bearing with flat seat, grooved raceway, pressed steel retainer, inch standard, light series
G		One direction ball thrust bearing with flat seat, grooved raceway, pressed steel retainer, inch standard medium series
K		Two lip inner ring
	K	Two lip outer ring
L		Cylindrical inner ring (no lips)
	L	Cylindrical outer ring (no lips)
M		One lip inner ring
	M	One lip outer ring
N		One lip inner ring with one roller retainment ring
	N	One lip outer ring with one roller retainment ring
P		Cylindrical inner ring with two roller retainment rings
	P	Cylindrical outer ring with two roller retainment rings
R		One piece, channel type, ball retainer
R		Steel cage when the cage retains the rollers in the inner ring if the outer ring is removed
	R	Steel cage when the cage retains the rollers in the outer ring if the inner ring is removed
T		Non-standard inner ring width
	T	Non-standard outer ring width
U		Non-standard fillet radii on inner ring
	U	Non-standard fillet radii on outer ring
X		Bore smaller than standard
	X	Outside diameter smaller than standard
W		Plain thrust washer
	Y	This letter used as a spare for the possibility of having two sizes under standard size in one number or vice versa
Z		Bore larger than standard
	Z	Outside diameter larger than standard

MFR. AETNA BALL AND ROLLER BEARING CO. (Cont'd) CODE 00658

How to read AETNA ball and roller bearing numbers:
Numbers indicate bearing size
Prefix letters indicate inner race type
Suffix letters indicate outer race type

EXAMPLE:

K1205PR

K 1205 P R

Two lip outer ring
Basic bearing size
Cylindrical outer ring with two roller retainment rings
Steel cage when the cage retains the rollers in the outer ring if the inner ring is removed

EXAMPLE:

KX1205PR

K X 1205 P R

Two lip outer ring
Outside diameter smaller than standard
Basic bearing size
Cylindrical outer ring with two roller retainment rings
Steel cage when the cage retains the rollers in the outer ring if the inner ring is removed

MFR. **AHLBERG BEARING CO.** CODE **00702**

Prefix	Suffix	Definition
	A	Machined aluminum retainer (single row and angular contact only)
	A	Special inner ring width (H5310-A)
	A	Large chamfer in bore (88107A)
	A	Light spindle oil
	A-45	Special 6209KG bearing
	AA	Lubricant - Alvania #2 (Shell)
	AC	Special Autocar bearing
	AC	Special internal fit-up
	ACS	Special Autocar bearing
AGB		Ahlberg ground bearing
	AM	Loading groove construction, vertex of contact angle inside bearing (obsolete)
	AN	Loading groove construction, vertex of contact angle outside bearing (obsolete)
	AU	Loading groove construction, vertex of contact angle located inside bearing (obsolete)
	AR	Large chamfer in bore (88107A) and spacer (88107AR)
	AXA	Aircraft bearings, standard boundary dimensions, ebonized (black oxided)
B		Spherical outside diameter
	B	Machined brass retainer (single row and angular contact only)
	B	Lubricant - BRB#1 (Socony-Vacuum)
	BB	Sand cast bronze two piece retainer
	BB	Lubricant - Royco #5N MIL-L-3545
BB	D	Smith-Nobak device - for transmitting a torque in both clockwise and counter-clockwise rotation, and at the same time prevent foreign torque opposed to the intent of the operator
	BBS	One piece sand cast bronze retainer for double row bearing
	BM	Bronze retainer machined from tubing
	BS	Sand cast one piece bronze retainer
	BSL	Pressed bronze, two piece, lip-type retainer
	BSR	Pressed bronze, two piece, riveted retainer
	BSS	Pressed bronze, one piece, snap-on retainer
	BT	Wide inner ring, blend bore (M-6408 only)
	BU	Slot in face, wide inner ring (6305 only)
	C	Double row, non-loading groove construction
	C	Non-metallic (Bakelite) retainer
	C	Lubricant, Gulf High Pressure Grease
	CB	Centrifugal cast brass retainer
	CC	Lubricant - Aeroshell Fluid #3
	CG	Special 45mm bore (5311G size)
	D	Duplex - both faces flush ground (2 bearings)
	D	Lubricant - Dow Corning DC-44 silicone grease
	D1	Duplex - all faces flush ground (1 bearing)

MFR. **AHLBERG BEARING CO. (Cont'd)** CODE **00702**

Prefix	Suffix	Definition
	DAK	Dake retainer (for Pyle National)
	DAK-PN	Dake retainer and two pins in face (6310 only)
	DB	Duplex mounted, back-to-back
	DC	Die cast zinc retainer
	DD	Lubricant - Esstic 50 (Socony-Vacuum)
	DF	Duplex mounted, face-to-face
	DT	Duplex mounted, in tandem
	DT-3	Duplex mounted - three bearings in tandem
DU		Pair of single row radial bearings designed as a unit - boundary dimensions interchangeable with 5000 series
	E	Ebonized (black oxide finish)
EC		Annular ball bearing, double row, internal self-aligning, extended inner ring
	EC	Pillow block series, direct mounted double row internal self-aligning bearing
ED		Pillow block series, direct mounted single row ball bearing, inner ring extended both sides, setscrews an extension of inner ring for shaft locking.
EDR		Pillow block series, direct mounted single row radial ball bearing, inner ring extended both sides, rubber vibration insulation
	EE	Lubricant - Gargoyle BRB Lifetime (Socony-Vacuum)
	EM	Electric motor specification for radial play
ES		Inner ring extended both sides (1200 series)
EW		Inner ring extended both sides (6000 series)
EWR		Rubber mounted cartridge unit for fans
	F	Felt seal (obsolete see FS)
	F	Lubricant, MIL-G-16908 grease (Beacon P-290)
	F	Packed full of lubricant
	FEC	Flange housing unit series designation
FED		Flange unit, direct mounted single row ball bearing with extended inner ring
	FS	Single seal
	FSS	Double sealed, one on each side
	G	One shield
	G	Lubricant - Beacon 325 (Esso)
	G	Double seal type (20000-G series) ED Simplex Units
	GB	Stamped brass shield
	GE	Large chamfer on one side of outer ring
	GF	One shield and one felt seal (obsolete see GFS)
	GFS	One shield and one seal
	GG	Two shields - one on each side
	GG	Lubricant - Winson Lube
	GJ	One standard shield, one bonded shield on opposite side
	H	Single row angular contact, less than 22° contact angle

MFR. **AHLBERG BEARING CO. (Cont'd)** CODE **00702**

Prefix	Suffix	Definition
	H	Hand spin only (used on special orders only)
	HR	Heat resistant steel rings, balls, and retainer
	HRV	Heat resistant steel rings and balls (no retainer)
	HT	High temperature grease
	J	Bonded shield
	J	Lubricant - Andok C (Esso)
	JJ	Two bonded shields, one on each side
	K	One snap ring and snap ring groove on OD of outer ring
	K	Lubricant - Keystone #44
	K-20	Chevrolet bearing with special snap ring (6207K20)
	K-30	Chevrolet bearing with special snap ring (6305K30)
	KCJO	Snap ring and groove, one shield and one bonded shield, snap ring on same side as bonded shield
	KF	Snap ring and groove, felt seal on opposite side (obsolete see KFS)
	KFF	Snap ring and groove on OD of outer ring, two felt seals, one on each side
	KFO	Snap ring and groove, felt seal on same side
	KFS	Snap ring and groove, felt seal on opposite side
	KG	One shield, snap ring and groove on OD of outer ring on side opposite shield
	KGF	One shield, one felt seal, snap ring and groove on OD of outer ring on same side as shield
	KGFO	One shield, one felt seal, snap ring and groove on OD of outer ring on same side as felt seal
	KGG	Two shields, snap ring and groove on OD of outer ring on one side
	KGJ	Snap ring, one shield, one bonded shield (snap ring on same side as standard shield)
	KGO	One shield, snap ring and groove on OD of outer ring on same side as shield
	KJ	Snap ring, bonded shield on opposite side
	KJJ	Snap ring, bonded shield on each side
	KJO	Snap ring, bonded shield on same side
	KO	Snap ring opposite of normal position
	KU	Snap ring groove only on OD of outer ring (no snap ring)
	L	Loose fit-up
	L	Minus one seal opposite collar lock on S-series bearings
	L	Special oversized OD
	L	Lubricant - Aerovac #25 (AN-G-25a)
	LL	Extra loose fit-up
	LLL	Extra, extra loose fit-up (greater than LL)
	LR	Large outer ring race curvature
	LT	Low temperature grease
M		Loading groove construction (maximum type) 6000 series only
	M	Non-metallic (synthante or micarta) retainer
	M	Lubricant - Andok B (Esso)

MFR. **AHLBERG BEARING CO. (Cont'd)** CODE **00702**

Prefix	Suffix	Definition
	MT	Medium temperature grease
	N	Light preload, duplex bearings
	N	Lubricant - Royal Marfak (Texas)
	NE	Not Ebonized (black oxided) on shields (9505)
	O	Snap ring on side opposite its standard location
	O	One piece retainer
	P	Deep Well Pump 7000 series, contact angle 32-45 degrees
	P	Shield (plate) extra small single row type bearing
	P	45 degree angle of contact
	P	Lubricant - New York and New Jersey S-58
	PB	Sand cast bronze prong type retainer
	PD	Die cast bronze prong type retainer
	PN	Special bore, (6305 bearing)
	Q	Pressed (stamped) brass retainer - single row and angular contact only
	Q	Lubricant - Aviation General Purpose Grease - MIL-L-7711 (AN-G-15a)
	R	Counterbored outer ring, primarily radial construction
	R	Lubricant - AN-G-5a Esso Aviation High Temp #1
	S	Standard fit-up
	S	Pressed steel retainer
	S	Separable bearing
	S	Rivet type retainer
	S	Lubricant - Silicone DC-41 Extreme Temperature Grease
SA		Single row annular ball bearing, double extended inner ring, felt seals, straight OD, (no grease holes), with collar
	SA	Self-aligning
SAG		Single row ball bearing, double extended inner ring, felt seals, straight OD, (four grease holes) with collar
SB		Single row ball bearing, double extended inner ring, felt seals, spherical OD (no holes), with collar
SBG		Single row ball bearing, double extended inner ring, felt seals, spherical OD (four grease holes) with collar
SF		Flange housing unit, direct mounted single row external self-aligning ball bearing with dirt proof seal, and eccentric locking collar
	SL	Pressed steel, two piece, lip-type retainer
	SL	Short length inner ring (EC-19) Carrier Corp
	SM	Machined steel retainer
SP		Pillow block, direct mounted single row bearing, external self-aligning, dirt proof seal, with eccentric locking collar
	SPD	Special pitch diameter
	SR	Pressed steel, two piece, riveted retainer
	SS	Pressed steel, one piece, snap-on retainer

MFR. **AHLBERG BEARING CO (Cont'd)** CODE **00702**

Prefix	Suffix	Definition
	SSA	Pressed steel retainer for self-aligning bearing
	STL	Two lipped steel retainer
	T	Lubricant - Aeroshell #11 (MIL-G-3278)
	T	Tight fit-up
	T	Tapered bore bearing
	TEC	Take-up unit series designation
	U	Snap ring not included
	U	One side sealed only - (88128 bearing)
	U	Universal bronze retainer
	US	Universal bronze retainer for self-aligning double row bearing
	V	Full type bearing, no retainer
	V	Lubricant, Shell C-7194 (MIL-C-10924)
	VV	Full type bearing, no retainer, snap wire in counterbore
	W	Narrow width, double row
	W	Lubricant - Cyprina #3 (Shell)
WC		Felt seal bearing, outer ring flush on one side (8000,87000, and 88000 series only)
WIR		Inner ring extended one side (6000, 6000M series for Electric Motors)
	WIR	Wide inner ring - (Electric Motors bearings)
	WS	White Special (White Motor Company)
X		Special annular ball bearing
	X	Point of maximum eccentricity marked on inner and outer rings
	X	Ball protrusion beyond face of bearing
	X	Lubricant - Medium Heavy Motor Oil
	X	Special fit-up to customer's specification
	XA	Aircraft series bearing
	XI	Point of maximum eccentricity marked on inner ring only
	XO	Point of maximum eccentricity marked on outer ring only
XT		Special thrust bearing
	Y	Double row, loading groove construction, vertex of contact angle inside bearing
	Y	Lubricant - Sovarex #3, (Socony-Vacuum)
	Z	Double row, radial construction
	Z	Material review of internal fit-up - Air Force
	O	Standard quietness test (1800 RPM test)
	O	Clock motor test and smoothness
	1	ABEC-1 tolerances
	1B	ABEC-1 tolerances, bore selected to low limit (lower 50% of total clearance)
	1C	ABEC-1 tolerances, Ahlberg bearing plated to size
	1W	ABEC-1 tolerances, bore selected to high limit (upper 50% of total tolerance)
	2	ABEC-2 tolerances (obsolete)

MFR. **AHLBERG BEARING CO. (Cont'd)** CODE **00702**

Prefix	Suffix	Definition
	3	ABEC-3 tolerances
	3	Quiet selection (3600 RPM test)
	5	ABEC-5 tolerances
	6	Extra quiet selection
	7	ABEC-7 tolerances
8		Single felt seal (8000 series)
9		One synthetic contact seal (9500-9600 series)
	9	Special specifications to customer's requirements
	10	Material review - tolerances - Air Force
	11	Material review - quietness requirement - Air Force
87		One felt seal, one shield (87000 series)
88		Two felt seals, one on each side (88000 series)
97		One shield, one synthetic contact seal (97500-97600 series)
99		Two synthetic contact seals (99500-99600 series)

How to read AHLBERG ball bearing numbers:

EXAMPLE:

6207KG

6207 K G

Basic bearing number
One snap ring and snap ring groove on OD of outer ring
One shield

EXAMPLE:

M6308KG1SO—J

M 6308 K G 1 S O — J

Maximum type
Basic bearing number
One snap ring and snap ring groove on OD of outer ring
One shield
ABEC 1 tolerance
Standard fit up
One piece retainer
Andok C grease

MFR. **AMERICAN BEARING COMPANY** CODE **84056**

Prefix	Suffix	Definition
A		Cylindrical roller bearing, cylindrical outer and inner rings, oil hole in both rings
AC		Cylindrical roller bearing, one lip inner ring, one lip outer ring
AD		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring
AD	X	Cylindrical roller bearing, cylindrical outer ring, cylindrical inner ring, pressed steel retainer, two roller retainment rings in outer ring
ADD		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one outer ring lip separable
AM		Cylindrical roller, two lip inner ring, cylindrical outer ring
C		Cylindrical roller bearing, cylindrical inner and outer rings, oil hole in inner and outer rings
CC		Cylindrical roller bearing, one lip outer ring, one lip inner ring
CD		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring
CDD		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one outer ring lip separable
CM		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring
E		Roller assembly for EC and ECS series bearings, super-heavy duty
EC		Journal roller bearing complete with outer race and roller assembly, no inner race, super-heavy duty
ECS		Journal roller bearing complete with inner and outer races and roller assembly, super-heavy duty
H		Roller assembly for HC and HCS series bearings, heavy duty
HC		Journal roller bearing complete with outer race and roller assembly, no inner race, heavy-duty
HCS		Journal roller bearing complete with inner and outer races and roller assembly, heavy duty
NB		Needle roller bearing, hardened and ground, complete bearing with roller containing outer race (no inner race)
NB	S	Needle roller bearing, hardened and ground, complete bearing with roller containing outer race and separable inner race
NDB		Needle roller bearing, double row, hardened and ground, complete bearing with roller containing outer race (no inner race)
NDB	S	Needle roller bearing, double row, hardened and ground, complete bearing with roller containing outer race and separable inner race
S		Roller assembly for SCS and SC series bearing, medium duty
SC		Journal roller bearing complete with outer race and roller assembly, no inner race, medium duty
SCS		Journal roller bearings complete with inner and outer races, and roller assembly, medium duty

MFR. **ANDREWS BEARING CO.** CODE **03489**

Prefix	Suffix	Definition
B		Banded ball thrust bearing, heavy type, inch standard
D		Banded ball thrust bearing, medium type, inch standard
EW		Plain ball thrust bearing, flat seats, flat races, inch standard, light type
FT		Plain ball thrust bearing, flat seats, flat races, inch standard, medium type
FT-O		Plain ball thrust bearing, flat seats, flat races, inch standard, small type
GT		Grooved ball thrust bearing, flat seat, one direction, inch standard
TB		Treadle roll ball bearing
W		Grooved ball thrust bearing, flat seat, one direction, inch standard (formerly 4300 series)
	W	Aligning washer only
WA		Plain flat steel thrust washers, inch standard

MFR. ARMY – NAVY AERONAUTICAL STANDARDS CODE 88044

Prefix	Suffix	Definition
D		Bearing, ball, double row, heavy duty, anti-friction, airframe, metal shield, drawing AN-200 (inactive for design)
DF		Bearing, ball, double row, heavy duty, felt seal, drawing AN-208 (inactive for design)
DFP		Bearing, ball, double row, heavy duty, deep groove, composition seals, drawing AN-205 (inactive for design)
DP		Bearing, ball, double row, heavy duty, anti-friction, airframe, composition seal, drawing AN-207
DS		Bearing, ball, double row, self-aligning, heavy duty, anti-friction airframe, metal shields, drawing AN-206 (inactive for design)
DSP		Bearing, ball, double row, heavy duty, anti-friction, airframe, composition seal, drawing AN-207
K		Bearing, ball, heavy duty, anti-friction, airframe, single row, metal shields, drawing AN-200 (inactive for design)
K	A	Bearing, ball, intermediate duty, anti-friction, airframe, single row, metal shields, drawing AN-201 (inactive for design)
K	B	Bearing, ball, extra light duty, anti-friction, airframe, single row, metal shields, drawing AN-202 (inactive for design)
K	L	Bearing, ball, heavy duty, anti-friction, airframe, single row, metal shield, drawing AN-200
KF		Bearing, ball, heavy duty, deep groove, felt seal, single row drawing, AN-204 (inactive for design)
KF	A	Bearing, ball, intermediate duty, deep groove, felt seal, drawing AN-209 (inactive for design)
KF	H	Bearing, ball, extra heavy duty, deep groove, composition seal, drawing AN-213 (inactive for design)
KFP		Bearing, ball, heavy duty, deep groove, composition seal, drawing AN-212 (inactive for design)
KFP	A	Bearing, ball intermediate duty, deep groove, composition seals, single row, drawing AN-203 (inactive for design)
KFP	H	Bearing, ball, extra heavy duty, deep groove, composition seals, drawing AN-213 (inactive for design)
KP		Bearing, ball, heavy duty, anti-friction, airframe, single row, composition seals, drawing AN-200
KP	A	Bearing, ball, intermediate duty, anti-friction, airframe, single row, composition seals, drawing AN-201
KP	B	Bearing, ball, extra light duty, anti-friction, airframe, single row, composition seals, drawing AN-202
KR		Bearing, roller, heavy duty, anti-friction, airframe, single row, drawing AN-200 (inactive for design)
KS		Bearing, ball, heavy duty, anti-friction, airframe, single row, self-aligning, metal shields, drawing AN-200
KS	L	Bearing, ball, heavy duty, anti-friction, airframe, single row, self-aligning, metal shields, drawing AN-200
P		Bearing, ball, bellcrank, anti-friction, airframe, composition seal, drawing AN-218

MFR. **AUBURN BALL BEARING CO.** CODE **04538**

Prefix	Suffix	Definition
T-100		Ball thrust bearing, banded outside diameter, four point contact race surface, flat seated
T-101		Ball thrust bearing, four point contact race surface - flat seated
T-101-FR		Ball thrust bearing, flat race surface, flat seated, with retainer
T-101-RG		Ball thrust bearing, round grooved race surface, flat seated, full complement of balls, no retainer
T-101-RGR		Ball thrust bearing, round groove race surface, flat seated, with retainer
T-114		Ball thrust bearing, banded inside diameter, four point contact race surface
T-114-RG		Ball thrust bearing, self-contained, step style
T-150		Enclosed (banded outside diameter) double ball thrust bearing, four point contact race surfaces
T-151-RGR		Double ball thrust bearing, round grooved race surface, flat seated, with retainer
T-160		Enclosed (banded outside diameter) double ball thrust bearings with spherical seat washers
T-161-RGR		Double ball thrust bearing, round groove race surface, spherical seated, with retainer
T-170		Ball thrust bearing, banded outside diameter, four point contact race surface, spherical seated
T-171		Ball thrust bearing, spherical seated
T-171-FR		Ball thrust bearing, flat race surface, spherical seated, with retainer
T-171-RG		Ball thrust bearing, round grooved race surface, spherical seated without retainer
T-171-RGR		Ball thrust bearing, round grooved race surface, spherical seated, with retainer
T-174		Ball thrust bearing, spherical seated
T-200-RG		Ball thrust bearing, double row, round grooved race surface, flat seated, no retainer, banded outside diameter
T-201-RG		Ball thrust bearing, double row, round grooved race surface, flat seated, no retainer
T-201-RGR		Ball thrust bearing, double row, round grooved race surface, flat seated, with retainer
T-271-RGR		Ball thrust bearing, double row, round grooved race surfaces, spherical seated, with retainer

MFR. BALL AND ROLLER BEARING COMPANY — CODE 05527

Prefix	Suffix	Definition
A		Ball thrust bearings, flat race surface, flat seat, with bronze ball retainer
AA		Ball thrust bearings, grooved race surface, flat seat, with solid machined retainer, special series
AH		Ball thrust bearing, grooved race surface, flat seat, solid machined retainer, heavy series
AL		Ball thrust bearing, grooved race surface, flat seat, with solid machined retainer, light series
AM		Ball thrust bearing, grooved race surface, flat seat, with solid machined retainer, medium series
B		Ball thrust bearing, banded outside diameter, grooved race surface, flat seat, no retainer
B		Locating washer for use with ball thrust bearing (for Type BB bearings)
BB		Ball thrust bearing, grooved race surface, spherical seat, solid machined retainer, special light series
BH		Ball thrust bearing, grooved race surface, spherical seat, solid machined retainer, heavy series
BL		Ball thrust bearing, grooved race surface, spherical seat, solid machined retainer, light series
BM		Ball thrust bearing, grooved race surface, spherical seat, solid machined retainer, medium series
C		Ball thrust bearing, grooved race surface, flat seat, with bronze ball retainer
CH		Ball thrust bearing, double direction grooved race surface, flat seat, middle washer locked to shaft, heavy series
CL		Ball thrust bearing, double direction, grooved race surface, flat seat, middle washer locked to shaft, light series
CM		Ball thrust bearing, double direction, grooved race surface, flat seat, middle washer locked to shaft, medium series
D		Ball thrust bearing, banded outside diameter, grooved race surface, flat seat, no retainer
DH		Ball thrust bearing, double direction, grooved race surface, spherical seat, middle washer locked to shaft, heavy series
DL		Ball thrust bearing, double direction, grooved race surface, spherical seat, middle washer locked to shaft, light series
DM		Ball thrust bearing, double direction, grooved race surface, spherical seat, middle washer locked to shaft, medium series
E		Roller thrust bearing, flat seat, flat race surfaces
EL		Ball thrust bearing, double direction, grooved race surface, flat seat, middle washer locked in housing, light series
FL		Ball thrust bearing, double direction, grooved race surface, spherical seat, middle washer locked in housing, light series
H		Locating washer for use with ball thrust bearings (for type BH and DH bearings)
L		Locating washer for use with ball thrust bearings (for type BL, DL, and FL bearings)
M		Locating washer for use with ball thrust bearings (for type BM and DM bearings)

MFR. BANTAM BEARING DIVISION — CODE 80657

Prefix	Suffix	Definition
A		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer
	A	Self-aligning spherical roller bearing complete with adapter sleeve; nut, and washer, tapered bore
A	Q	Needle roller only
AA		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with retainer
ABCS		Journal roller bearing complete with inner and outer race and roller assembly, both races same length and flush, light series
	AC	Ball thrust bearing, angular contact type, flat seat
AF		Cylindrical roller bearing, two lipped inner ring, two roller retainments on outer ring, full complement of rollers
AL		Cylindrical roller bearing, two lip inner ring, two lip outer ring, one lip of outer ring separable, with cage
ALF		Cylindrical roller bearing, two lip inner ring, two lip outer ring, one lip separable, full complement of rollers, no cage
ALI		Cylindrical roller bearing, two lip inner ring, one lip outer ring
AN		Locknut designation
ARN		Removal nut designation, adapter sleeve, spherical roller bearing
ASK		Adapter sleeve, push type, spherical roller bearing (obsolete designation)
AX		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with cage, extra light series
B		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer
B	Q	Needle roller only
	BB	Annular ball bearing, single row, counterbored outer ring, angular contact, (angularity greater than 25 degrees), metric dimensions
	BC	Annular ball bearing, single row, radial; non-loading groove, self-contained, rings flush, metric dimensions
BF		Cylindrical roller bearing - two lip inner ring, two roller retainment rings on outer ring, full complement of rollers
	BH	Annular ball bearing, single row, counterbored outer ring, primarily radial (very low angularity), rings flush, metric dimensions
	BIB	Annular ball bearing, single row, counterbored outer ring, angular contact (angularity greater than 25 degrees), inch dimensions
	BIC	Annular ball bearing, single row, radial, non-loading groove, self-contained, rings flush, inch dimensions
	BIH	Annular ball bearing, single row, counterbored outer ring, primarily radial (very low angularity), rings flush, inch dimensions
	BIT	Ball thrust bearing, grooved raceway, flat seat, inch dimensions
BL		Cylindrical roller bearing - two lip inner ring, two lip outer ring, one lip of outer ring separable, with cage
BLF		Cylindrical roller bearing - two lip inner ring, two lip outer ring, one lip of outer ring separable, full complement of rollers, no cage
C		Annular ball bearing, ground, single row, radial, non-loading groove, self-contained, both rings flush, metric

MFR. BANTAM BEARING DIVISION (Cont'd) CODE 80657

Prefix	Suffix	Definition
C	Q	Needle roller only
CH		Cylindrical roller thrust bearing - crane hook
CR		Cam follower
EBCS		Journal roller bearing complete with inner and outer race and roller assembly, both races same length and flush
F	Q	Needle roller only
G	Q	Needle roller only
H		Annular ball bearing, single row, radial, non-loading groove, self-contained, both rings flush, inch dimensions, heavy series
H	Q	Needle roller only
H7		Annular ball bearing, single row, counterbored outer ring, angular contact, greater than 25 degrees, inch dimensions. heavy series
HBCS		Journal roller bearing complete with inner and outer race and roller assembly, both races same length and flush, heavy series
HM		Annular ball bearing, single row, counterbored outer ring, primarily radial (very low angularity), inch dimensions heavy series
I		Inner race for needle roller bearing
IR		Inner race, hardened and ground needle roller bearing
	JTD	Journal roller bearing complete with outer race and roller assembly (no inner race), inch dimensions
	JTE	Journal roller bearing complete with inner and outer race and roller assembly, inch dimensions
	K	Tapered bore, self-aligning spherical roller bearing
L		Annular ball bearing, single row, radial, non-loading groove, self-contained, both rings flush, light series, inch dimensions
L7		Annular ball bearing, single row, counterbored outer ring, angular contact (greater than 25 degrees), inch dimensions, light series
L	Q	Needle roller only
LM		Annular ball bearing, single row, counterbored outer ring, primarily radial (very low angularity), inch dimensions, light series
LR		Cylindrical roller thrust bearing, flat seat
M		Annular ball bearing, ground, single row, counterbored outer ring, primarily radial (very low angularity)
M	Q	Needle roller only
MB		Lockwasher designation
	MTD	Journal roller bearing complete with outer race and roller assembly (no inner race), metric dimensions
	MTE	Journal roller bearing complete with inner and outer race and roller assembly, metric dimensions
N		Locknut designation
	NAA	Needle roller bearing, hardened and ground roller containing outer race, no inner race
	NAB	Needle roller bearing, hardened and ground roller containing outer race with inner race
O	Q	Needle roller only

MFR. BANTAM BEARING DIVISION (Cont'd) CODE 80657

Prefix	Suffix	Definition
OA		Ball reciprocating assembly, no race
OCA		Ball reciprocating assembly with outer race
	RF	Cylindrical roller bearing, two lip inner ring, one lip inner ring, with retainer, metric dimensions
	RIF	Cylindrical roller bearing, two lip inner ring, one lip outer ring, with retainer, inch dimensions
	RIK	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, with retainer, inch dimensions
	RIN	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer, inch dimensions
	RIP	Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable, with retainer, inch dimensions
	RIU	Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with retainer, inch dimensions
	RK	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, with retainer, metric dimensions
RL		Cylindrical roller thrust bearing, self-aligning, with aligning washer
RN		Removal nut designation adapter sleeve, spherical roller bearing
	RN	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer, metric dimensions
	RP	Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable, with retainer, metric dimensions
	RU	Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with retainer, metric dimensions
S	Q	Needle roller only
SA		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with cage, external self-aligning, with aligning ring
SAL		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable, with cage, external self-aligning, with aligning ring
SALF		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable, retainerless, full complement of rollers, external self-aligning, with aligning ring
SB		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with cage, external self-aligning, with aligning ring
SBF		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, full complement of rollers, external self-aligning, with aligning ring
SBL		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable, external self-aligning ring, cage type
SBLF		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable, external self-aligning, with aligning ring, cageless (full complement of rollers)
SC		Snap ring, outer race, needle roller bearing
	SD	Self-aligning roller bearing, spherical rollers
SK		Adapter sleeve, push type, spherical roller bearing
SP		Adapter sleeve, spherical roller bearing

MFR. BANTAM BEARING DIVISION (Cont'd) CODE 80657

Prefix	Suffix	Definition
SS		Snap ring, inner race, needle roller bearing
	T	Tapered roller thrust bearing, flat seat
	TDI	Tapered roller bearing, double row, double cone, two single cups
	TDO	Tapered roller bearing double row, double cup, two single cones
	TNA	Tapered roller bearing, non-adjustable, double cup, single cones
	TQO	Tapered roller bearing, four row, two double cones, one double cup, two single cups
	TS	Tapered roller bearing, single row, normal angle
	TSS	Tapered roller bearing single row, steep angle
U	Q	Needle roller only
W		Lockwasher designation
W	Q	Needle roller only
	WRF	Cylindrical roller bearing, two lip inner ring, one lip outer ring, with retainer, metric dimensions
	WRIF	Cylindrical roller bearing two lip inner ring, one lip outer ring, with retainer, inch dimensions
	WRIK	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, with retainer, inch dimensions
	WRIN	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer, inch dimensions
	WRIP	Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable, with retainer, inch dimensions
	WRIU	Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with retainer, inch dimensions
	WRK	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, with retainer, metric dimensions
	WRN	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, with retainer, metric dimensions
	WRP	Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable, with retainer, metric dimensions
	WRU	Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, with retainer, metric dimensions
7		Annular ball bearing, single row, counterbored outer ring, angular contact (angularity greater than 25 degrees)

How to read BANTAM roller bearing numbers:

EXAMPLE:

L7-88

L7 - 88

Light Series,
Angular Contact
Basic Bearing Number

EXAMPLE:

BL544

BL 544

Cylindrical roller bearing - two lip inner ring, two lip outer ring, one lip of outer ring separable, with cage
Basic Bearing Number

MFR. **BARDEN CORP.** CODE **70854**

Prefix	Suffix	Definition
A		Ultra light torque tube series (A500Z)
	A	Different boundary dimension series (R4A) same bore as number without A (R4)
	ABEC-5	ABEC-5 tolerance
	ABEC-7	ABEC-7 tolerance
B		(followed by numeral) torque tube type bearing
	B	Separable inner race
	C	bore and OD calibrated in .0001 in. increments
	CO1	no bore calibration, OD calibration + .0000 − .0001
	CO2	no bore calibration, OD calibration − .0001 − .0002
	CO4	OD calibrated in .00005 in. increments, no bore calibration
	COA	OD calibration + .00000 − .00005, no bore caiibration
	COB	OD calibration − .00005 − .00010, no bore calibration
	COC	OD calibration − .00010 − .00015; no bore calibration
	COD	OD calibration − .00015 − .00020; no bore calibration
	COX	no bore calibration, OD calibrated in increments of .0001 in.
	C1A	Bore calibration + .0000 − .0001, OD calibration + .00000 − .00005
	C1B	Bore calibration + .0000 − .0001, OD calibration − .00005 −.00010
	C1C	Bore calibration + .0000 − .0001 OD calibration − .00010 − .00015
	C1D	Bore calibration + .0000 − .0001 OD calibration − .00015 −.00020
	C2A	Bore calibration − .0001 −.0002 OD calibration + .00000 − .00005
	C2B	Bore calibration − .0001 − .0002 OD calibration − .00005 − .00010
	C2C	Bore calibration − .0001 − .0002 OD calibration − .00010 − .00015
	C2D	Bore calibration − .0001 − .0002 OD calibration − .00015 − .00020
	C4X	Bore calibrated in .00005 in. increments, OD calibrated in .0001 in. increments
	C10	Bore calibration + .0000 − .0001 No OD calibration
	C11	Bore calibration + .0000 − .0001 OD calibration + .0000 − .0001
	C12	Bore calibration + .0000 − .0001 OD calibration − .0001 − .0002
	C20	Bore calibration − .0001 − .0002 No OD calibration
	C21	Bore calibration − .0001 − .0002 OD calibration + .0000 − .0001

MFR. **BARDEN CORP. (Cont'd)** CODE **70854**

Prefix	Suffix	Definition
	C22	Bore calibration + .0001 − .0002 OD calibration + .0001 − .0002
	C40	Bore calibrated in .00005 in. increments, no OD calibration
	C44	Bore and OD calibrated in .00005 in. increments
	CAO	Bore calibration + .00000 − .00005 No OD calibration
	CA1	Bore calibration + .00000 − .00005 OD calibration + .0000 − .0001
	CA2	Bore calibration + .00000 − .00005 OD calibration − .0001 − .0002
	CAA	Bore calibration + .00000 − .00005 OD calibration + .00000 − .00005
	CAB	Bore calibration + .00000 − .00005 OD calibration − .00005 − .00010
	CAC	Bore calibration + .00000 − .00005 OD calibration − .00010 − .00015
	CAD	Bore calibration + .00000 − .00005 OD calibration − .00015 − .00020
	CBO	Bore calibration − .00005 − .00010 No OD calibration
	CB1	Bore calibration − .00005 − .00010 OD calibration + .0000 − .0001
	CB2	Bore calibration − .00005 − .00010 OD calibration − .0001 − .0002
	CBA	Bore calibration − .00005 − .00010 OD calibration + .00000 − .00005
	CBB	Bore calibration − .00005 − .00010 OD calibration − .00005 − .00010
	CBC	Bore calibration − .00005 − .00010 OD calibration − .00010 − .00015
	CBD	Bore calibration − .00005 − .00010 OD calibration − .00015 − .00020
	CCO	Bore calibration − .00010 − .00015 No OD calibration
	CC1	Bore calibration − .00010 − .00015 OD calibration + .0000 − .0001
	CC2	Bore calibration − .00010 − .00015 OD calibration − .0001 − .0002
	CCA	Bore calibration − .00010 − .00015 OD calibration + .00000 − .00005
	CCB	Bore calibration − .00010 − .00015 OD calibration − .00005 − .00010
	CCC	Bore calibration − .00010 − .00015 OD calibration − .00010 − .00015
	CCD	Bore calibration − .00010 − .00015 OD calibration − .00015 − .00020

MFR. **BARDEN CORP (Cont'd)** CODE **70854**

Prefix	Suffix	Definition
	CDO	Bore calibration − .00015 No OD calibration − .00020
	CD1	Bore calibration − .00015 OD calibration + .0000 − .00020 − .0001
	CD2	Bore calibration − .00015 OD calibration − .0001 − .00020 − .0002
	CDA	Bore calibration − .00015 OD calibration + .00000 − .00020 − .00005
	CDB	Bore calibration − .00015 OD calibration − .00005 − .00020 − .00010
	CDC	Bore calibration − .00015 OD calibration − .00010 − .00020 − .00015
	CDD	Bore calibration − .00015 OD calibration − .00015 − .00020 − .00020
	CXO	No OD calibration, bore calibrated in .0001 in. increments
	CX4	Bore calibrated in .0001 in. increments; OD calibrated in .00005 in. increments
	D	Three way universal matched (DB, DF & DT)
	DB	Duplexed back-to-back
	DF	Duplexed face-to-face
	DT	Duplexed in tandem
E		Separable outer race and magneto (E15)
F		Flanged outer ring type
	G2	Grease, MIL-G-3278
	G4	Grease, MIL-L-7711
	G5	Grease, MIL-L-3545
	G6	Grease, Navy 14L3c
	G8	Grease, MIL-G-15793
	G9	Grease, Dow-Corning DC-44, fluid grade
	G10	Grease, MIL-G-15719A
	G11	Grease, Dow Corning DC-44 medium grade
	G12	Grease, MIL-L-3545
	G13	Grease, MIL-G-7421
	G14	Grease, Dow Corning, DC-33 light grade
	G15	Grease, Socony-Vacuum Red Horse Industrial Grease (formerly PD-779A)
	G16	Grease, Standard Oil of Indiana, Supermil ASU Grease M40
	G17	Grease, MIL-G-3278
	G18	Grease, Texas Co. TG-2573
	G19	Grease, MIL-L-7711
	G20	Grease, Standard Oil of Indiana, Supermil ASU M100
	H	angular contact, single row
	J	Silver retainer

MFR. **BARDEN CORP (Cont'd)** CODE **70854**

Prefix	Suffix	Definition
	K	One piece pressed steel retainer (obsolete)
	K	Separating symbol (no meaning)
	O-2	Oil, MIL-L-6085A
	O-9	Oil, MIL-L-7870
	O-10	Oil, Esso Standard, Teresso 43
	O-11	Oil, MIL-L-6085A
	O-12	Oil, Esso Standard, Teresso V-78
	O-13	Oil, Dow Corning DC-200-20
	O-14	Oil, MIL-L-7808A
	O-15	Oil, MIL-L-6085A
	P	Two piece pressed steel retainer
	Q	Steel snap cage
R		Light inch series (R2)
	R	Pressed brass cage
S		Stainless steel (440c) rings and balls
	S	1 Shield
	SG-1	Soft film corrosion protective
	SS	2 Shields
	T	Phenolic ball retainer
	U	Machined brass cage
	V	Low starting torque characteristics
	VL	Very low starting torque characteristics
	X	Deviation from standards
Z		Basic designation for bearings that depart radically from standard design and construction
	Z	Spring separators
	1	Radial clearance code; .0000 - .0002 for all sizes except 211 and 212, .0000 - .0003 for sizes 211 and 212, tight fit
	2	Radial clearance code .0001 - .0003 for all sizes except 211 & 212 .0002 - .0005 for sizes 211 and 212, medium tight fit
	3	Radial clearance code .0002 - .0004 for sizes R2-R10; 34-39; 100-103, R168 .0002 - .0005 for sizes R12, 200-210, 104-112 .0003 - .0007 for sizes 211 and 212 Standard fit
	4	Radial clearance code .0003 - .0005 for sizes R2-10, 34-39, 100-103, R168 .0003 - .0007 for sizes R12, 200-210, 104-112 .0005 - .0010 for sizes 211-212 Medium loose fit
	5	Radial clearance code .0005 - .0008 for sizes 36H-37H; 100H-103H, R2-R10, 34-39, 100-103, R68 .0005 - .0009 for sizes 104H-108H, 200H-205H, R12, 200-205, 104-108 .0007 - .0012 for sizes 206H-210H, 206-210, 109-112 .0009 - .0015 for sizes 211H-212H, 211-212 Loose fit

MFR. **BARDEN CORP (Cont'd)** CODE **70854**

Prefix	Suffix	Definition
	6	Radial clearance code .0008 - .0011 for sizes 100H-103H, R2-R10, 34-36, 39, 100-103, R168 .0009 - .0014 for sizes 104H-108H, 200H-205H, R12, 200-205, 104-108 .0012 - .0017 for sizes 206H-210H, 206-210, 109-112 .0015 - .0020 for sizes 211H-212H, 211-212 Extra loose fit

How to read BARDEN part numbers:

EXAMPLE:

205H DB ABEC 5

205H DB ABEC 5

Basic bearing number
Angular contact, single row
Duplex back-to-back
ABEC 5 tolerances

MFR. BEARINGS COMPANY OF AMERICA — CODE 06388

Prefix	Suffix	Definition
	A	Single row, 25 degree angular contact
BIW		Single row, radial, conrad, wide inner ring, eccentric self-locking collar
BNW		Single row, radial, conrad, external self-aligning, wide inner ring, eccentric locking collar
	CC	Double rubbing seal
CT		Clutch throwout, thrust type
CTB		CT bearing with plain band housing
CTD		CT bearing, with a double diameter housing
CTE		CT bearing, with housing having extended end
CTL		CT bearing, with one spherical faced washer
CTS		CT bearing, with ferrule or sleeve in the bore
CW		Clutch release bearing without housing, but having a wide radial face on one side
CWM		CW bearing, with malleable housing
CWV		CW bearing, with felt seal type housing
CWX		CW bearing, with X type housing
CWY		CW bearing, with Y type housing
CX		C bearing, with X type housing
CY		C bearing, with Y type housing
CYN		C bearing, with Y type housing and with pipe nipple
	E	Extended inner ring
	EA	Single row, off-set, 25 deg angle at contact
EL		Extended inner ring
	EN	Single row, off-set, 15 deg angle of contact
	ET	Single row, off-set, 30 deg angle of contact
	F	Felt seal, single
	FB	Retainer fitted with porous bronze bushing around each ball and felt segments between bushings, pre-lubricated type
	FF	Double felt seal
	G	Composition seal, single
	GG	Double composition seal
	GS	Seal and shield
	L	Snap ring
N		Narrow outer race (applies to sealed bearings)
	N	Single row, 15 deg angle of contact
	PF	Retainer equipped with felt segments, pre-lubricated type
	PG	Plain retainer, pre-lubricated type
	S	Single shield
	SL	Shield and snap ring
	SS	Double shield

MFR. **BEARINGS COMPANY OF AMERICA (Cont'd)** CODE **06388**

Prefix	Suffix	Definition
	SSL	Double shield and snap ring
	T	Single row, 30 deg angle of contact
	W	Wide inner ring extended to one side
	WL	Wide inner ring with labyrinth seal
	O	Standard fit
	1	Tight fit
	2	Loose fit
	NOTE:	Thrust bearings—metric and inch series TA metric series—medium TB inch series—light TB inch series—medium Same as AFBMA standards, bearing Identification code

How to read BCA bearing numbers:

EXAMPLE:

N209GS

N 209 G S

Narrow outer race
Basic bearing number
Composition Seal on one side
Shield on opposite side

EXAMPLE:

CT66A

CT 66 A

Clutch throw out—thrust type
Basic bearing number
Single row, 25 deg angular contact

MFR. **BOWER ROLLER BEARING CO.** CODE **08162**

Prefix	Suffix	Definition
A		Straight cylindrical inner ring, cylindrical roller bearing
A		Tapered roller bearing series designation (e.g. A4000) or individual cone or cup number within series (e.g. A4057, A6157)
	A	Deviation from standard, cylindrical roller bearing
	A	Cage, type A, steering gear bearing, tapered roller bearing (e.g. 5A, 11A, etc—superseded by BA) (old system)
	A	Extra part number (e.g. 6A, 359A; 15250A, etc), tapered roller bearing cone or cup, deviation from item without suffix (old system)
	A	Tapered roller bearing, bearing width closer than standard (new system)
	AB	Flanged cup, tapered roller bearing (old system)
	AC	Extra part number for cup, tapered roller bearing (old system)
	AD	Double cup, tapered roller bearing (old system)
	AS	Extra part number for cone or cup, tapered roller bearing (old system)
	AW	Slotted or keyway cone, tapered roller bearing (old system)
	AX	Extra part number, cone or cup, tapered roller bearing, lapped front face (e.g. 14138AX) (old system)
B		Inner ring only, cylindrical roller bearing, recessed for use with F cage (old system)
B		Deviation from standard, cylindrical roller bearing, usually wider inner ring, (new system)
	B	Outer ring only, cylindrical roller bearing, recessed for use with F cage (old system)
	B	Deviation from standard, cylindrical roller bearing, usually oversize outer ring (new system)
	B	Flanged cup, tapered roller bearing
	BA	Cage, tapered roller bearing, type BA, steering gear bearing, conical head rollers (old system)
	BC	Cage, tapered roller bearing type BC, steering gear bearing, flat head rollers (old system)
	BR	Cone or cup, tapered roller bearing, with snap ring (new system)
	BS	Flanged cup, tapered roller bearing (old system)
BT		Bower proprietary prefix (old system)
	BW	Flanged cup with slot or keyway, tapered roller bearing
	BX	Flanged cup, tapered roller bearing (old system)
	C	Straight cylindrical outer ring, cylindrical roller bearing (new system)
	C	Outer ring only, plain, cylindrical roller bearing (old system)
	C	Cage, tapered roller bearing type C, steering gear bearing (superseded by type BC) (old system)
	CA	Cone, tapered roller bearing, relief groove in backface or extra part number (old system)
	CB	Cone, tapered roller bearing, relief groove in front face or extra part number (old system)
	CC	Cone, tapered roller bearing, relief groove in both faces (old system)
	CE	Cup ,tapered roller bearing, extra part number (old system)
	CP	Chrome plated cone or cup, tapered roller bearing
	CS	Cone or cup, tapered roller bearing, extra part number (old system)

MFR. **BOWER ROLLER BEARING CO. (Cont'd)** CODE **08162**

Prefix	Suffix	Definition
	D	Outer ring only, one lip, cylindrical roller bearing (old system)
	D	One lip outer ring, cylindrical roller bearing (new system)
	D	Double cone or cup, tapered roller bearing
	DA	Cone tapered roller bearing, extra part number (old system)
	DA	Double cup, tapered roller bearing, spherical OD self-aligning (new system)
	DB	Flanged double cup, tapered roller bearing
	DD	Extra long double cone or cup, tapered roller bearing
	DE	Double cone or cup, tapered roller bearing
	DS	Cup, tapered roller bearing, with crowned OD
	DW	Double cone or cup, tapered roller bearing with slot or keyway
	DX	Aligning ring for self-aligning DA cup
	E	Outer ring only, two lips, cylindrical roller bearing (old system)
	E	Cone or cup, tapered roller bearing, extra part number (old system)
	EA	Cup spacer (standard), tapered roller bearing (new system)
	EB	Additional cup spacer, tapered roller bearing
	EC	Additional cup spacer, tapered roller bearing
	ED	Double cup, tapered roller bearing (old system)
	ED	Additional cup spacer, tapered roller bearing
EE		Special cone design—not to be interchanged with part it supersedes, tapered roller bearing (old system)
EH		Cone or cup, tapered roller bearing, extra heavy duty series (new system)
EL		Cone or cup, tapered roller bearing, extra light duty series (new system)
	F	Steel cage, built up construction, cylindrical roller bearing (old system)
	F	Cone, tapered roller bearing, extra part number (old system)
	G	Snap ring groove in OD of outer ring, cylindrical roller bearing, when the "G" appears in the middle of the suffix (EGL) then the groove is in the middle of the outer ring OD when the letter is used at the beginning of the suffix (GEL) then the groove appears on one side of the outer ring OD
H		Cone or cup, tapered roller bearing, heavy duty series (new system)
	H	A hole in the outer ring and any special characteristics such as loose internal fit-up
HH		Cone or cup, tapered roller bearing, heavier than heavy duty series (new system)
HM		Cone or cup, tapered roller bearing, heavy medium duty series (new system)
J		Prefix to all part numbers for journal roller bearings
	J	One piece bronze or light metal cage, cylindrical roller bearing (old system)
	J	Bronze cage, cylindrical roller bearing (new system)
K		Prefix for aircraft bearings "K" series
K		Prefix to all K/J series part numbers, cylindrical roller bearings
K	EJ	Outer ring and roller assembly only, cylindrical roller bearing, two lip outer ring
KA	EJ	Non-locating cylindrical roller bearing with removable cylindrical inner ring, two lip outer ring

MFR. BOWER ROLLER BEARING CO. (Cont'd) CODE 08162

Prefix	Suffix	Definition
KR	EJ	One direction locating cylindrical roller bearing, removable one lip inner ring, two lip outer ring
KSN	EJ	Two direction locating cylindrical roller bearing with removable two piece two lipped inner ring, two lipped outer ring
KU	CJ	Non-locating cylindrical roller bearing with removable cylindrical outer ring, two lip inner ring
KU	DJ	One direction locating cylindrical roller bearing with separable one lip outer ring, two lip inner ring
L		Cone or cup, tapered roller bearing, light duty series (new system)
	L	Steel cage, built up construction, cylindrical roller bearing (old system)
	L	Steel cage, cylindrical roller bearing (new system)
LL		Cone or cup, tapered roller bearing, lighter than light duty series (new system)
LM		Cone or cup, tapered roller bearing, light medium duty series (new system)
M		Prefix to all M/F and M/L series part numbers, cylindrical roller bearings
M		Cone or cup, tapered roller bearing, medium duty series (new system)
	M	Full complement of rollers—no cage—cylindrical roller bearing (old system)
	M	Non-separable complete cylindrical roller bearing with full complement of rollers (new system)
M	B	Outer ring only for cylindrical roller bearing, recessed to guide retainer
M	BF	Cylindrical roller bearing, outer ring recessed to guide retainer, no inner ring
M	C	Cylindrical outer ring only, cylindrical roller bearing
M	CH	Cylindrical outer ring only, cylindrical roller bearing, hole centrally located
M	D	One lip outer ring only cylindrical roller bearing
M	E	Two lip outer ring, cylindrical roller bearing
M	EG	Two lip outer ring, cylindrical roller bearing, centrally located OD groove
M	EH	Two lip inner ring, cylindrical roller bearing, centrally located hole
M	EL	Cylindrical roller bearing, two lip outer ring, no inner ring, steel cage, double row (6200 series) other series single row
M	GC	Cylindrical outer ring only for cylindrical roller bearing, OD groove on one side
M	GE	Two lip outer ring, cylindrical roller bearing, OD groove one side
M	N	Separable lip only, outer ring, cylindrical roller bearing
M	S	One lip outer ring, cylindrical roller bearing, width adapted to receive separable second lip
M	SH	One lip outer ring, cylindrical roller bearing, width adapted to receive separable second lip, centrally located hole
M	T	Cylindrical outer ring only for cylindrical roller bearing, with ID grooves for roller retainment rings
M	W	Separable lip only (wide type), outer ring, cylindrical roller bearing
MA		Cylindrical inner ring, cylindrical roller bearing
MA	BF	Cylindrical roller bearing, outer ring recessed to guide retainer, cylindrical inner ring, non-locating
MA	EL	Cylindrical roller bearing non-locating, two lip outer ring, cylindrical inner ring, steel cage

MFR. BOWER ROLLER BEARING CO. (Cont'd) CODE 08162

Prefix	Suffix	Definition
MB		Inner ring recessed to guide retainer, cylindrical roller bearing
MB	BF	Cylindrical roller bearing, self-contained, non-locating outer and inner ring recessed to guide retainer, steel cage
MN		Separable lip only, inner ring, cylindrical roller bearing
MR		One lip inner ring, cylindrical roller bearing
MR	EL	Cylindrical roller bearing, one direction locating, two lip outer ring, one lip inner ring, steel cage
MRY		One lip inner ring, cylindrical roller bearing, with groove for roller retainment ring
MRY	EL	Cylindrical roller bearing, one direction locating, two lip outer ring, one roller retainment ring and one lip on inner ring, steel cage inner ring ID corner chamfer on side opposite lip
MRY	EM	Cylindrical roller bearing, one direction locating, two lip outer ring, full complement of rollers, one roller retainment ring and one lip on inner ring, inner ring ID corner chamfer on side opposite lip
MRYR		Inner ring only, cylindrical roller bearing, one lip, roller retainment ring groove on OD on side opposite lip, ID corner chamfer on same side as lip
MS		One lip inner ring, cylindrical roller bearing adapted to receive separable second lip
MU		Two lip inner ring, cylindrical roller bearing
MU	CL	Cylindrical roller bearing non-locating, cylindrical outer ring, two lip inner ring, steel cage
MU	DL	Cylindrical roller bearing one direction locating, one lip outer ring, two lip inner ring, steel cage
MU	L	Cylindrical roller bearing, two lip inner ring and roller assembly, no outer ring, steel cage
MU	SL	Cylindrical roller bearing, two lip inner ring, one lip outer ring, steel cage, outer ring shortened to receive separable lip (lip not furnished)
MU	SNL	Cylindrical roller bearing, two lip inner ring, two lip outer ring, steel cage, one lip of outer ring separable
MU	SWL	Cylindrical roller bearing, two lip inner ring, two lip outer ring, steel cage, one lip of outer ring separable and extending beyond inner ring width
MU	TM	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, full complement of rollers (no cage)
MU	UV	Cylindrical roller bearing, two lip inner ring with two roller retainment rings, one lip outer ring with one roller retainment ring, full complement of rollers (no cage)
MV		Separable lip only, inner ring, cylindrical roller bearing
NA		Factory adjusted cone, tapered roller bearing (Two used with D cup)
	NC	Cushioned cup, tapered roller bearing
	NW	Factory adjusted cone, tapered roller bearing, with slotted face (two used with D cup)
	NX	Cone, tapered roller bearing, lapped front face (old system)
R		Prefix to all R/F series part numbers, cylindrical roller bearings
R		Inner ring only, one lip, I.D. corner chamfer side opposite lip
	R	Special designation, cylindrical roller bearing or component rings, larger than standard radius or larger outer ring width
	R	Cone or cup, tapered roller bearing, extra part number, special radius (old system)

MFR. BOWER ROLLER BEARING CO. (Cont'd) CODE 08162

Prefix	Suffix	Definition
R	BF	Cylindrical roller bearing, outer ring recessed to guide retainer, no inner ring, steel cage
R	EL	Cylindrical roller bearing, two lip outer ring, steel cage, no inner ring
RA	BF	Cylindrical roller bearing, outer ring recessed to guide retainer, cylindrical inner ring, steel cage
RA	EL	Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, steel cage
	RB	Cup, tapered roller bearing, snap ring groove in OD (old system)
RY		Inner ring only, one lip, roller retainment ring groove on OD of side opposite lip, ID chamfer on side opposite lip
	S	Cone, tapered roller bearing, slotted or keyway type (old system)
	S	Cone or cup, tapered roller bearing, extra part number (old system)
	SA	Cone or cup, tapered roller bearing, extra part number (old system)
	SB	Flanged cup, tapered roller bearing (old system)
	SD	Double cup, tapered roller bearing (old system)
SN		Inner ring only for cylindrical roller bearing, two lips, one separable
	SN	Two lip outer ring, cylindrical roller bearing, one lip separable
	SP	Cup, tapered roller bearing, extra part number (old system)
	SR	Cone or cup, tapered roller bearing, extra part number (old system)
	SW	Slotted or keyway cone, tapered roller bearing (old system)
	SX	Cone or cup, tapered roller bearing, extra part number (old system)
T		Smaller than standard bore, cylindrical roller bearing or component inner ring
	T	Cone, tapered roller bearing, tapered bore
	T	Cup, tapered roller bearing, tapered O.D.
	TD	Cup, tapered roller bearing, double cup with tapered O.D.
	TD	Cone, tapered roller bearing, double cone with tapered bore
U		Inner ring only, two lip, cylindrical roller bearing, ID corner chamfer one side
	U	Cone, tapered roller bearing, special undersize bore (old system)
W		Deviation from standard cylindrical roller bearing or components
	W	Slotted or keyway cone or cup, tapered roller bearing (old system)
	W	Cone, tapered roller bearing with two angular slots on back face (new system)
	WA	Cone, tapered roller bearing with single angular slot on cone back face
	WB	Cone, tapered roller bearing with two straight slots
	WC	Cone, tapered roller bearing with full length slot (keyway) through cone bore
	WD	Cone, tapered roller bearing with special slot or keyway
X		Experimental Part – cone or cup, tapered roller bearing (old system)
	X	Slotted or keyway cone, tapered roller bearing (old system)
	X	Cone or cup, tapered roller bearing, extra part number
	XA	Cup, tapered roller bearing, extra part number (old system)
	XA	Cone spacer (standard), tapered roller bearing, (new system)
	XB	Additional cone spacer, tapered roller bearing, (new system)

MFR. BOWER ROLLER BEARING CO. (Cont'd) CODE 08162

Prefix	Suffix	Definition
	XC	Additional cone spacer tapered roller bearing
	XD	Double cone, tapered roller bearing (old system)
	XD	Additional cone spacer, tapered roller bearing, (new system)
	XW	Slotted or keyway cone, tapered roller bearing

How to read BOWER metric roller bearings:

EXAMPLE:

MA1205EL

MA 1205 EL

MA Cylindrical inner ring, cylindrical roller bearing
1205 Basic bearing number
EL Two lip outer ring, cylindrical inner ring, steel cage

How to read BOWER roller bearing numbers:

EXAMPLE:

BT25877-25821

BT 25877 - 25821

Bower proprietary prefix
Cone number
Cup number

MFR. **DODGE MFG. CORP.** CODE **71956**

Prefix	Suffix	Definition
D400		Bearing unit, ball, type SC pillow block, self-aligning, seals, extended inner ring and locking collar on bearing, 2 bolt base, direct mounting, fixed type
D401		Bearing unit, ball, type SC flanged housing, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type
D402		Bearing unit, ball,type SC cylindrical unit, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type
D403		Bearing unit, ball,type SC take-up unit, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type
D404		Bearing unit, ball, type SC take-up unit self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type, a hole and slot are provided for the unthreaded end of an adjusting screw and for the collar pinned to the screw
D405		Bearing unit, ball, type SC hanger box, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type
D406		Bearing unit, ball, type SC screw conveyor hanger box, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounted, fixed type
D408		Bearing unit, tapered roller, type E pillow block, self-aligning, seals, extended inner ring and two locking collars on bearing, 2 and 4 bolt base, direct mounting, fixed type
D409		Bearing unit, tapered roller, double interlock type pillow block, self-aligning, seals, extended inner ring and two locking collars on bearing, split housing, 2 or 4 bolt base, direct mounting, fixed type unless otherwise specified
D410	B1	Double interlock type unit maybe used either fixed or floating by providing suitable means for locating the unit axially in the pillow block
D410	D	Double interlock type unit used in the double interlock, fixed type pillow block
D410	S1	Double interlock type unit used in the double interlock, floating type pillow block
D411		Bearing unit, tapered roller, type C pillow block, self-aligning, triple steel seals, slotted and threaded sleeve extends completely through bearing, two locking collars on bearing, split housing, direct mounting, 2 or 4 bolt base, fixed type unless otherwise specified
D412	B1	C type unit may be used either fixed or floating by providing suitable means for locating the unit axially in the pillow block
D412	D	C type unit used in the C fixed type pillow block
D412	S1	C type unit used in the C floating type pillow block
D413		Bearing unit, tapered roller, special duty pillow block, self-aligning, piston ring seals, 2 or 4 bolt base, split housing, tapered bore with adapter mounting, fixed type unless otherwise specified
D414	B1	Special duty type unit may be used either fixed or floating by providing suitable means for locating the unit axially in the pillow block
D414	D	Special duty type unit used in the fixed special duty pillow block
D414	S1	Special duty type unit used in the floating type special duty pillow block
D416		Bearing unit, tapered roller, all steel pillow block, self-aligning, double piston ring seals, two locking collars, 4 bolt base, tapered bore with adapter mounting, fixed type unless otherwise specified
D417		Bearing unit, tapered roller, all steel cartridge unit, self-aligning, double piston ring seals, two locking collars, 2 end plates and rings, tapered bore with adapter mounting, fixed type unless otherwise specified
D418		Bearing unit, tapered roller, type E flange housing, self-aligning, seals, extended inner ring and locking collar on bearing, direct mounting, fixed type

MFR. DODGE MFG. CORP. (Cont'd) CODE 71956

Prefix	Suffix	Definition
D419		Bearing unit, tapered roller, double interlock flange housing, self-aligning, seals, extended inner ring and two locking collars on bearing, split housing, direct mounting, fixed type unless otherwise specified
D420		Bearing unit, tapered roller, type C flange housing, self-aligning, triple steel seals, slotted and threaded sleeve extends completely through bearing, two locking collars on bearing, split housing, direct mounting, fixed type unless otherwise specified
D421		Bearing unit, tapered roller, special duty flange housing, self-aligning, piston ring seals, split housing, tapered bore with adapter mounting, fixed type unless otherwise specified
D438		Bearing unit, ball, type SC take-up, incorporates the SC ball bearing unit
D439		Bearing unit, ball, type G take-up incorporates the SC ball bearing unit
D440		Bearing unit, tapered roller, type E take-up incorporates the type E roller bearing unit
D443		Bearing unit, tapered roller, type C elevator boot take-up, incorporates type C tapered roller bearing unit
D444		Bearing unit, ball or roller, 4 point iron drop hanger bearing incorporates either type E, type SC or 4 point ring oiling hanger bearing unit
D445		Type C hanger bearings consisting of two tapered roller bearings mounted on a ground sleeve and fitted in a housing, used with any 2 point or 4 point hanger frame
D446		Bearing unit, ball type SC hanger bearing, incorporates the SC type bearing unit

MFR. **THE FAFNIR BEARING CO.** CODE **21335**

Prefix	Suffix	Definition
A		Stainless steel
A		Housing, Pillow Block (e.g. A-5088)
A		Housing, cylindrical cartridge unit (e.g. A-5047)
	A	Original maximum (filling slot type) (obsolete on most sizes) (superseded by W)
	A	Narrow series type
	A	Medium duty aircraft type
	A	Outer race not integral with shank, on rod-end type
AA		K Monel metal construction
AA		Chrome—tungsten steel (formerly used for resistol on Monel metal bearings)
	AC	Special Cadillac bearing (obsolete)
	AD	Anderson Die Machine Co. (thrust bearings only)
	AL	Special bearing (Charles G. Allen Co.)
AR		Automotive replacement (obsolete)
B		Aircraft torque tube type
B		Single row maximum type, full type
B		End cap number, pillow block (e.g. B-5845)
	B	Aircraft type, external self-aiigning but without the "S" ring
	B	Deep groove, self-aligning type without extra aligning ring, outer ring beveled
	B	Used on radial and wide inner ring types
	B	Extra light duty aircraft type (KB series)
	B	Also used on earlier series roller bearings to designate width
	B	Spherical OD
	B	Designation after "Q" indicates degree of noise of bearing when tested
	BA	(Thrust bearings only) Bausch Machine Tool Co.
BC		Bellcrank units for aircraft
BCP		Bellcrank type aircraft bearing, plya-seals
BCP	W	Bellcrank type aircraft bearing (e. g. BCP5W11)
BCU		Bellcrank, composite type, separate bearing and duralumin housing
	BF	Wide inner "B" type with felt seals
	BK	Bakelite retainer
BM		Old designation used on box to denote ABEC-2 tolerances (obsolete)
	BM	(Thrust bearing only) New Britain Machine Co.
	BR	Bronze retainer, stamped on box only
	BT	Special caterpillar replacement
	BU	Old special for Buda Headlight, notched inner ring
C		Housing, cylindrical cartridge unit (e.g. C-2624)
	C	Narrow series
C		Cylindrical cartridge unit (replacement bearing unit series MUB)
	C	A few sizes to denote "cloth cutter fit-up" requiring tight, smooth bearings

MFR. **THE FAFNIR BEARING CO. (Cont'd)** . . CODE **21335**

Prefix	Suffix	Definition
	C	Special automotive replacement size
	C	Also used on earlier series roller bearings to indicate width
	C1,2,3, etc.	Denotes latest internal construction change, overall dimensions unchanged
	C1	Old special angular contact 17C1-2
	C2	When applied to 5200W series means conversion to a steel retainer
	CD	Special oilite retainer bearing for Ford Motor Co.
CE		Aircraft cable end bearing (obsolete)
CM		Old ABEC-3 designation (obsolete)
	CN	Special bearing, Chicago Pneumatic Tool
CO		Cylindrical cartridge unit—(replacement bearing unit series MUOB)
CP		Old aircraft control pulley series, superseded by "K"
	CR	Crimped retainer, one piece construction with sides folded or crimped around the balls
	CR	Stamped on box only to designate composition retainer
	CT	Clutch throw-out bearings, special designs incorporating a casing and perhaps other parts are identified by numbers following the "CT" suffix
D		Aircraft, double-row metal shields
D	R	Track roller type, aircraft bearing (e.g. D7R6-2)
	D	Steel plate grease shield on one side of bearing
	D	Early double thrust type
	D	Early roller bearings to denote width
	DB	Duplex back-to-back
	DD	Steel plate grease shield on both sides of bearing
	DDG	Double shield, snap ring and groove on OD of outer ring
DF		Aircraft double-row felt seal, old type, now replaced with plya-seal type, same designation
	DF	Duplex face-to-face
	DG	Single shield, snap ring and groove on OD on side opposite shield
DP		Aircraft, double-row, plya-seal type
DP	A	Track roller type aircraft bearing (e.g. DP8A3)
DR		Double row industrial roller bearings
DRN		Double rigid pillow block
DS		Aircraft, double row, self-aligning
DSA		Standard series double pillow block, two wide inner ring bearings with locking collars each bearing single labyrinth sealed (replacement bearing unit series MUA)
DSADD		Same as DSA series except furnished with dust seal collars
DSAO		Same as DSA series except heavy series (replacement bearing unit series MUOA)
DSAODD		Same as DSADD series except heavy series (replacement bearing unit series MUOA)
DSP		Double row self-aligning aircraft bearing, plya-seal, pre-lubricated
	DT	Duplex tandem
DW		Aircraft, wide, double-row
	DX	Old flat race outer ring (obsolete)

MFR. **THE FAFNIR BEARING CO. (Cont'd)** CODE **21335**

Prefix	Suffix	Definition
E		Few specials for Eaton Axle (obsolete)
	E	Old suffix to designate bore different from standard
	E	Early roller bearings to denote width
	E	(Followed by four digit numeral) customer specification
EM		Smooth, quiet bearings for electric motors (obsolete)
F		Lineshaft box unit (replacement bearing unit series MUA)
F		Flanged outer ring, mostly small instrument sizes
	F	Originally used for Ford Motor Co. ball size, between "H" and "K" designs
	F	Female shank, rod-end type
	F	Synthetic rubber and felt washer, incorporated on integral part of mechani-seal on wide inner ring bearings
FB		Old flanged bearing (obsolete)
FL		Aircraft fairlead bearings
FL	C	Fairlead type aircraft bearing (e.g. FL3C3)
FR		Aircraft cable support bearings (obsolete)
	FR	Old Rolls-Royce special (obsolete)
	FS102	Lubricant code Beacon M285
	FS103	Lubricant code Fiske Bros. BB Lubriplate
	FS104	Lubricant code Andok B
	FS105	Lubricant code Royco 6A
	FS107	Lubricant code Fiske Bros. Lubriplate #115
	FS108	Lubricant code WS429 Obsolete see FS110
	FS110	Lubricant code Univis P48
	FS111	Lubricant code Colonial Beacon Lub #5413
	FS115	Lubricant code Lubriko-M-32
	FS118	Lubricant code Andok C
	FS121	Lubricant code Lubriko M-24
	FS122	Lubricant code Texaco TG-716 ANG-5A (See FS167)
	FS125	Lubricant code Uni-Temp TG-749 ANG-25 (obsolete) (See FS156)
	FS126	Lubricant code Fiske Bros. B Lubriplate packed full
	FS131	Lubricant code Beacon 325 ANG-25 (See FS160B)
	FS132	Lubricant code Aero-shell #11 ANG-25 (See FS160C)
	FS133	Lubricant code Aerovac 25 ANG-25 (See FS141)
	FS134	Lubricant code Texaco TG-404 ANG-15
	FS137	Lubricant code DC44 Light
	FS141	Lubricant code Aerovac 25 N14G8 (ORD) (See FS165)
	FS142	Lubricant code Fiske Bros. Lubriplate #70A
	FS144A	Lubricant code Windsor Lube L-245 (AN-O-11)
	FS144B	Lubricant code Eclipse Pioneer PO-10 (AN-O-11)
	FS144C	Lubricant code Lehigh Chemical L-401 (AN-O-11)

MFR. THE FAFNIR BEARING CO. (Cont'd) CODE 21335

Prefix	Suffix	Definition
	FS145A	Lubricant code Univis P38 (14-0-20)
	FS145B	Lubricant code Lehigh L-281 (14-0-20)
	FS145C	Lubricant code Shell Oil V-623OX (14-0-20)
	FS147	Lubricant code DC-33 Medium (Silcon grease)
	FS156	Lubricant code Uni-Temp TG-1224 (ANG-25) (See FS160A)
	FS157	Lubricant code Texaco Aircraft Instrument Oil (AN-O-6A)
	FS158	Lubricant code Keystone #89 heavy
	FS160A	Lubricant code Uni-Temp TG-1224 (MIL-G-3278)
	FS160B	Lubricant code Beacon 325 (MIL-G-3278)
	FS160C	Lubricant code Aeroshell #11 (MIL-G-3278)
	FS160D	Lubricant code Std. Oil Calif. #51279BR (MIL-G-3278)
	FS160E	Lubricant code Keystone 87H-X Light (MIL-G-3278)
	FS160F	Lubricant code Gulf Oil GS-3717 (MIL-G-3278)
	FS160S	Lubricant code, (MIL-G-3278)
	FS160X	Lubricant code, (MIL-G-3278)
	FS165	Midco. Instr. Grease #287 (MIL-G-15793)
	FS166A	Lubricant code Uni-Temp TG-1224 (MIL-G-3278)
	FS166B	Lubricant code Beacon #325 (MIL-G-3278)
	FS166C	Lubricant code Aeroshell #11 (MIL-G-3278)
	FS166D	Lubricant code Std. Oil Calif. #51279BR (MIL-G-3278)
	FS166E	Lubricant code Keystone 87H-X Light (MIL-G-3278)
	FS166F	Lubricant code Gulf Oil GS-3717 (MIL-G-3278)
	FS167	Lubricant code Texaco TG-1819 (MIL-L-3545)
	FS168	Lubricant code Texaco TG-1888 (MIL-G-7421)
	FS171A	Lubricant code Windsor Lub L-245X (MIL-L-6085)
	FS171B	Lubricant code Univis P38 (MIL-L-6085)
	FS174	Seal or shielded bearing with slush AN-C-124A, Type II
	FS175	Lubricant code Windsor Lube L-1384, Gulfite Oil A6, Texas Company TL-1875 (MIL-L-644)
	FS185	Lubricant code, MIL-G-10924
	FT	Full type (without a retainer)
G		Aircraft guide roll
G		Relubricatable mechani-seal, wide inner ring bearing
G		Grease groove on outside of bearing, wide inner ring bearing
G		Housing, cylindrical cartridge unit (e. g. G-2624)
	G	Snap ring and groove on OD of outer ring
G	KLL	Double mechani-seal wide inner ring power transmission bearing, with provision for relubrication, not external self-aligning, with eccentric locking collar
G	KLLB	Double mechani-seal wide inner ring power transmission bearing, with provision for relubrication, external self-aligning with eccentric locking collar
G	Y	Push pull type guide bearing (e.g. G4Y17)

MFR. THE FAFNIR BEARING CO. (Cont'd) CODE 21335

Prefix	Suffix	Definition
GD		Double row guide race type
	GE	General Electric Co. (stainless steel bearings) (obsolete)
	GE	Also suffix for few narrow series
GN		Old aircraft guide roller having needle rollers
GN		Now used for heavy series, relubricatable, wide inner ring, mechani-seal bearings
H		Stamped on box only, designates snug internal fit-up
H		Housing, cylindrical cartridge unit (e.g. H-2624)
	H	Early Conrad type (superseded by "K" type)
	H	Heavy aircraft series
	H	Hollow shank (no threads) rod-end type
	HF	Ford Motor Co. (obsolete)
	HP	Old style shield (obsolete)
	HY	Single-row, internal, self-aligning (obsolete)
I		Housing, cylindrical cartridge unit (e.g. I-2624)
	I	Snapped-in construction
	I	Old "I" series, outer rings one millimeter narrower than the inner ring
	IC	Banded thrust bearings
	J	Original single felt seal design, now superseded by "T" construction
	JJ	Old designation for felt seal on both sides of bearings, superseded by "TT"
K		Aircraft, single-row, double shielded
K		Housing, cylindrical cartridge unit (e.g. K-2624)
K	AR	Track roller type aircraft bearing (e.g. K8AR4)
K	L	Track roller type aircraft bearing (e.g. K3L2)
	K	Latest Conrad (non-filling slot) type
KC		Aircraft aero seal type
	KD	Conrad type, single shield
	KDD	Conrad type, double shielded
KF		Aircraft single row, originally felt seals, now plya-seals, same designation
	KL	Conrad construction, single mechani-seal
	KL	Industrial power transmission ball bearing, wide inner ring, single seal, with eccentric locking collar
	KLB	Industrial power transmission ball bearing, wide inner ring, single seal, external self-aligning, with eccentric locking collar
	KLD	Conrad construction, single mechani-seal, single shield
	KLL	Conrad construction, double mechani-seal
	KLL	Industrial power transmission bearing, wide inner ring, double seal, with eccentric locking collar
KP		Aircraft single row plya-seal
KP	A	Full type aircraft bearing, plya-seal, prelubricated, medium duty (e.g. KP20A)
KP	AR	Track roller type aircraft bearing (e.g. KP3AR11-2)

MFR. THE FAFNIR BEARING CO. (Cont'd) CODE 21335

Prefix	Suffix	Definition
KP	B	Full type aircraft bearing, medium duty, plya-seal, prelubricated (e.g. KP37B)
KPS		Removable seals (on KS series), aircraft type
KR		Small aircraft type roller bearing
KS		Aircraft, single-row, self-aligning
KS	L	Self-aligning aircraft bearing, metal shield, prelubricated (e.g. KS3L)
	KT	Single felt seal, conrad construction
	KT	Wide inner type to denote change in outer ring size from original design
	KTD	Conrad construction, one felt seal, one shield
	KTT	Double felt seal, conrad construction
	KVL	Conrad construction, single mechani-seal
	KVLD	Conrad construction, single mechani-seal, single shield
	KVLL	Conrad construction, double mechani-seal
	KVT	Single felt seal, conrad construction
	KVTD	Conrad construction, single felt seal, single shield
L		Internal self-aligning type
L		Few magneto sizes
	L	Old designation on GE mine locomotive bearings with 45° chamfer on one corner of outer ring
	L	Mechani-seal on one side of single row radial and wide inner ring bearings
	L	A few light series aircraft sizes
	L	Left-handed thread, rod-end type
	L	Mechani-sealed on one side
LAK		Direct mounted ball bearing pillow block series designation (replacement bearing series G—KLLB), double mechani-seal, external self-aligning bearing
LAO		Direct mounted ball bearing pillow block series designation (replacement bearing series GN—KLLB), double mechani-seal, external self-aligning bearing
LC		Cylindrical cartridge unit (replacement bearing series G—KLLB)
LCJ		Flange cartridge unit, (replacement bearing series G—KLLB)
LCJO		Same as LCJ except heavy series (replacement bearing series G—KLLB)
	LD	Mechani-sealed on one side, plate shield on other
	LF	Mechani-sealed one side with felt or composition between seal members
	LF	Landers, Frary and Clark thrust bearings
	LL	Mechani-seals both sides of bearing, radial and wide inner type
	LLF	Mechani-seals both sides of bearing with felt or composition between seal members
	LLG	Double mechani-seal, snap ring and groove on OD of outer ring
LP		Special wide inner bearing, Proctor and Schwartz
LM		"L" means dovetail or undercut cam on wide inner bearings. The "M" means closer bore tolerances now standard
	LRD	Single row roller bearing, double lipped inner (obsolete)
LTU		Take-up unit, (replacement bearing series G—KLLB)

MFR. THE FAFNIR BEARING CO. (Cont'd) CODE 21335

Prefix	Suffix	Definition
M		ABEC-3 tolerance
M		Special precision, originally set up as ABEC-4 tolerance, now made to ABEC-3 tolerance
M		Magneto
M		Housing, cylindrical cartridge unit (e.g. M-2624)
M		Old lug type, wide inner ring bearing to designate bores from nominal to plus, .0005 to .0008 depending on size
	M	1/32" difference in bore dimensions, thrust type
	M	Male shank, rod-end type
	MBR	Machined bronze retainer (stamped on box only)
MC		Motor cartridge unit (replacement bearing unit MUOA)
M	FS60000	ABEC-5 bearing, (last four digits of FS suffix are for customer specification)
MM		Super-precision type manufactured to meet ABEC-7 specification
	MR	Old single row roller type, few sizes (obsolete)
	MS	Stamping size designation, flangette unit
	MSR	Machined steel retainer (stamped on box only)
MUA		Replacement bearing unit for DSA-DSADD pillow blocks
MUB		Replacement bearing unit for SA-SAD-SADD type pillow blocks
MUOB		Replacement bearing unit for SAO, SAOD, and SAODD pillow block
N		Industrial roller bearings of the newer series with certain dimensions different from the same number without letter "N"
N		Thrust bearings to interchange with SKF of corresponding size
N		Heavy series, non-relubricatable wide inner ring mechani-seal bearings
	N	Double row bearings, 5000 series, Old American, narrow width prior to SAE Standards. (note: 5000 series without suffix "N" is present SAE standard width)
	N	6000 series, Old American width in inches. (note: 6000 series without suffix "N" is European metric width)
	N	On shielded bearings closer fitting grease shield with more land on bearing face
	N	Adapter type bearing with SKF taper
	NP	Single non-removable plya-seal
	NPP	Two non-removable plya-seals
	NE	North East Electric Co. Double labyrinth seal
N	KLL	Industrial power transmission bearing, double sealed, wide inner ring, with eccentric locking collar
N	KLLB	Industrial power transmission bearing, double sealed, wide inner ring width eccentric locking collar, external self-aligning
NLTU		Take-up unit frame, pressed steel for side mounting
NR		Aircraft needle roller type
O		Housing, cylindrical cartridge unit (e.g. O-2624)
	O	Original Conrad (non-filling slot) type, symbol may sometimes be misread as a zero (obsolete)
	OMX	Old tapered bore type (obsolete)

MFR. **THE FAFNIR BEARING CO. (Cont'd)** CODE **21335**

Prefix	Suffix	Definition
P		Stamped on box only, indicates loose internal fit-up
P		Aircraft special pulley bearings
P		Housing, cylindrical cartridge unit (e.g. P-2624)
	P	Plya-seal on one side of bearing
	P	Old designation for 7000 series bearings having 45° contact angle and special one piece bronze retainer (obsolete)
	PP	Plya-seals on both sides of bearing
PN		Plya-national specials
PSM	S	Replacement bearing for SAL pillow block
PSM	TS	Replacement bearing for SAL pillow block
	PT	The "Polar Tip" retainer used mostly on Magneto bearings, a one-piece brass separator with the bottom of the ball pocket indented slightly by a flattening die to insure that the retainer will rest on the ball at this point.
	PW	Extra duty radial, thrust type 7000 series
	PW	35° angle in larger series
Q		Housing, cylindrical cartridge unit (e.g. Q2624)
R		Single cage roller bearing
R		Regular fit-up
R		Housing, cylindrical cartridge unit (e.g.R-2624)
	R	Right-hand thread rod-end type
RB		Double shielded relubricatable wide inner ring bearings used in rubber pillow block
RBG		Rubber pillow block with provision for relubrication
RBGF		Rubber flange cartridge unit
RBGU		Same as RBG except furnished with corrosion resistant steel strap
RE		Aircraft rod-end bearing
REB		Rod-end type
RL		Old inch dimensions bearings
RM		Old wide inner with no cam, now used for "M"(ABEC-3) precision bearing with regular internal fit-up (obsolete)
RS		Rubber pillow block, no provision for relubrication
RSC		Rubber cylindrical cartridge unit
RSU		Same as RS except furnished with corrosion resistant steel strap
	RT	Retainer type (obsolete)
S		A few automotive replacement sizes with special prices (obsolete)
S		Old single row internal, self-aligning type (obsolete)
S		Caterpillar steering clutch release bearings
S		Small inch dimensions sizes
S		Known as aerolite type for aircraft service, few special aircraft sizes
S		Self-locking collars for wide inner ring bearing
	S	External self-aligning type, spherical surface on the OD is matched with an internal spherical surface of an extra ring having a straight or flat OD, used to designate single and double row and wide inner ring bearings

MFR. **THE FAFNIR BEARING CO. (Cont'd)** CODE **21335**

Prefix	Suffix	Definition
	S	On thrust bearings only, this suffix means steel retainer (if no "S" is used, it may be assumed that the retainer is bronze)
	S	Solid shank, rod-end type
S	HD	Dust seal collar, SADD pillow block
S	K	Collar, wide inner power transmission bearing (e.g. S1113K)
S	KD	Dust seal collar, SADD series pillow block
S	KT	Eccentric locking collar for wide inner ring bearing (e.g. S1108KT)
S	KTD	Dust seal collar, SADD pillow block
S	WD	Dust seal collar, SAOD or SAODD pillow block
SA		Direct mounted ball bearing pillow block series designation (replacement bearing unit MUB series) single labyrinth sealed external self-aligning bearing
SA	KD	Dust seal collar only for SADD series pillow block
SA	WD	Dust seal collar, SADD series pillow block
SAD		Pillow block designation, same as SA series except furnished with dust seal collar
SADD		Pillow block designation, same as SA and SAD except furnished with dust seal collar and rear dust seal
SAL		Directed mounted ball bearing pillow block (replacement bearing series PSM---S or PSM---TS), furnished fixed or floating, external self-aligning bearing
SAN	KD	Dust seal collar, SAOD or SAODD pillow block
SAN	WD	Dust seal collar, SAOD or SAODD pillow block
SAO		Direct mounted ball bearing pillow block series designation (replacement bearing unit series MUOB), single labyrinth sealed external self-aligning bearing
SAOD		Pillow block designation, same as SAO except furnished with dust seal collar
SAODD		Pillow block designation, same as SAO and SAOD except furnished with dust seal collar and rear dust seal
SAOL		Same as SAL series except of heavier section
SCS		Countershaft box unit (replacement bearing unit series MUB)
	SM	Thrust bearings, one washer bore 1/32" larger than the other
SM		Power transmission bearing, single row, external self-aligning with aligning ring, wide inner ring with eccentric locking collar
SM	B	Industrial power transmission bearing, single row, external self-aligning, wide inner ring with eccentric locking collar, single labyrinth seal
SM	K	Power transmission bearing, single row, radial, wide inner ring, with eccentric locking collar
SM	KB	Power transmission bearing, single row, external self-aligning, wide inner ring with eccentric locking collar
SMN		Power transmission bearing, single row, external self-aligning with aligning ring, wide inner ring with eccentric locking collar, heavy series (no suffix)
SMN		Bearing same as for SM except bearing is 300 series
SMN	A	Replacement bearing for DSAO and DSAODD series pillow blocks
SMN	B	Power transmission bearing, single row, external self-aligning, single labyrinth seal, wide inner ring with eccentric locking collar
SMN	K	Power transmission bearing, single row, radial, wide inner ring with eccentric locking collar, heavy series

MFR. **THE FAFNIR BEARING CO. (Cont'd)** CODE **21335**

Prefix	Suffix	Definition
SMN	KB	Power transmission bearing single row, external self-aligning, wide inner ring with eccentric locking collar, heavy series
SMO		Similar to SMN except longer inner ring, old designation
SN	H	Eccentric locking collar
SN	HD	Dust seal collar, pillow block
SN	K	Eccentric locking collar for wide inner ring power transmission bearing (e.g. SN103K)
SN	KD	Dust seal collar, pillow block
SN	WD	Dust seal collar
SNW		Adapter sleeve, locknut, and lockwasher
SP		Special bore, wide inner (obsolete)
	SR	Steel retainer
SZN		Special bore, wide inner (obsolete)
T		Stamped on box only, indicates tight internal fit-up
T		Housing, cylindrical cartridge unit (e.g. T-12941A)
T		Mounted bearing unit housing number (e.g. T-10513)
T		Housing base number, pillow block (e.g. T-10511)
T		End cap number, pillow block (e.g. T-12128)
T		Rear dust seal when followed by shaft size (e.g. T-13143 X 1-7/16″)
	T	Felt seal on one side of bearing
T	D	Housing, pillow block with dust seal collar
	TD	Single seal and shield
	TG	Single felt seal, snap ring and groove on OD of outer ring on side opposite seal
	TT	Felt seal on both sides of bearing
TU		Take-up unit frame, cast iron
V		Housing, cylindrical cartridge unit(e.g. V-2624)
	V	Extra small bearings used in vacuum cleaners
W		Wide type plya-seal bearing
	W	Latest maximum capacity (filling slot) type
	W	Westinghouse Electric (thrust bearings only)
	W	Few old Magneto types
	W	20 ° angle in smaller sizes, 7200 and 7300 series
	WE	Used as suffix on few Magneto bearings
	W	(followed by numeral) width of inner ring in sixteenths, bellcrank type
	WD	Loading groove construction, single shield face opposite groove
WH		Whitin Machine Textile bearings
	WI	Maximum type (W) counterbored on snap-in construction (I) outer ring 1 M/M narrower than inner ring, faces flush on side opposite counterbore
	WI	Also aircraft helicopter bearing
WIR		Single row bearing, inner ring extended on one side to double row width

MFR. **THE FAFNIR BEARING CO. (Cont'd)** CODE **21335**

Prefix	Suffix	Definition
	WIX	Ultra-precision type for high speed spindles, boxed only in pairs that can be mounted "DB", "DF", or "DT"
	WP	7000 series with 35° contact angle, same note as for WI (superseded by 7000PW series)
	WW	Woodworking type, machined bronze two-piece riveted retainers, usually used with precision bearings having prefix "M"
	WY	Old internal self-aligning (single row of balls) (obsolete)
	X	Old dragon type now obsolete, had no retainer and was fitted with two rows of balls in a single row width
	X	Duplex, super precision construction
XD		Automotive propeller shaft bearing
Y		Aircraft special helicopter bearings
Y		A few old special extra light type for aircraft, similar to torque tube type (obsolete)
Y	PWI (DB)	Aircraft bearing, medium duty, retainer type, duplex (DB), plya-seal (e.g. Y96PWIDB)
Z		Small Magneto and single row radial bearings with case hardened rings, very old
Z		Conveyor roller turns (obsolete)
	Z	Special labyrinth seal one side
	ZZ	Special labyrinth seal with packing between, very few sizes
2		12° contact angle in radially fitted bearings
3		25° contact angle in radially fitted bearings
	-2,-3,-4, etc.	Any bearing number followed by a dash and another single digit, indicates a bearing differing from standard (as represented by the bearing number proper) in one respect or another

How to read FAFNIR ball bearing numbers:

EXAMPLE:

MMW205PP E5638 FS131

MM W 205 PP E5638 FS166B

Super-precision ABEC-7 tolerance
Wide type plya-seal bearing
Basic number
Plya-seals on both sides
Special feature specification
Lubricant MIL-G-3278

EXAMPLE:

P305KDD FS160C

P 305 K DD FS160C

Loose internal fit-up
Basic bearing number
Conrad type
Shield on both sides
Lubricant Aero-shell
#11 MIL-G-3278

MFR. **FEDERAL BEARINGS CO., INC.** CODE **21760**

Prefix	Suffix	Definition
	A	Lubricant code Aerovac #25, spec. 14-G-8 (Ord.)
	B	Lubricant code D6-B-5a, Spec. AN-O-6a
	B	Radial clearance greater than normal
BA		Clutch release bearing assembly
	BL	CT type with width variation
	C	Lubricant code, AN-O-6a superseded by MIL-L-7870
	CG	Conrad type with snap ring
	CG	Snap ring
	CT	Clutch throwout type
	CTH	CT type with nipple for grease fitting
	CTM	CT type with steel shell
	CTN	CT type with oil hole
	CTQ	CT type with steel shell
	CTR	CT type with nipple for grease fitting
	D	Lubricant code, Dow Corning 44
	D	Duplex bearing
	E	Lubricant code, Texas Co. "EP-100," Spec. AN-G-10
	E	Single plastic shield
	EE	Double plastic shield
F		Automobile front wheel type
	F	Lubricant code, Texas Co. "No. 1888", Spec. MIL-L-7421
	F	Single steel shield
FB		Magneto type
	FF	Double steel shield
	FE	Shielded both sides. One side steel shield; opposite side plastic shield
	FG	Snap ring and shield on the same side of bearing
	FR	Shielded both sides - one side steel - opposite side neoprene
FS		Rear wheel bearings
FS		Federal special and felt seal
FS		Special purpose bearing when used with numbers from 1 to 9000
	G	Snap ring
	G	Lubricant code, Texas Co. "No. 1819", Spec. AN-G-5a or MIL-L-3545
	GF	Snap ring- single shield at opposite side of bearing
	H	Lubricant code Andok C
	HO	Lubricant code, Crown B Gulf Oil
	HT	Lubricant code, Andok C
I		Self-aligning, double row, radial type with extended inner ring
I		Self-aligning - extended inner ring
	J	Lubricant code, Socony BRB lifetime grease

MFR. FEDERAL BEARINGS CO., INC. (Cont'd) CODE 21760

Prefix	Suffix	Definition
	L	Lubricant code, Texas Co. "TG-1224", Spec. MIL-G-3278
	L	Loose fit
	LO	Lubricant code, Mobile S.S.
	LO/2	Lubricant code, Univis No. 48
LS		Light series - inch dimensions
	LT	Lubricant code, Beacon M285 - low temperature
	M	Lubricant code, Aeroshell #11, Spec. MIL-G-3278
	M	Single row - maximum capacity - filling slot
	MLT	Lubricant code, Royco 6A
	MR	Double row radial type
MS		Medium series - inch dimensions
	MT	Lubricant code, Gulflex waterproof
	MT/1	Lubricant code, N. Y. and N. J. S58
	MT/2	Lubricant code, N. Y. and N. J. F925
MWI		Wide inner ring
	N	Narrow inner ring
	N	Double row - light series - narrow width
	P	Lubricant code, Texas Co. "Regal Starfax Special", Spec. AN-G-15a
PT		Carbon bearing clutch release
	Q	Lubricant code, Royco 6A
	R	Lubricant code, Royco 5, MIL-L-3545
	R	Retainer
	R	Single neoprene seal
	RR	Double neoprene seal
S		Extra small, inch dimensions, full type
	S	Lubricant code, N. Y. and N. J. "S58"
	SA	Internal self- aligning
	SL	Harmony A slushing compound
SOC		Extended inner ring, locking collar, light series
SOC	H	Extended inner ring, locking collar, medium series
SR		Extra small, inch dimensions, with retainer
S	R	Extra small, inch dimensions, with retainer
	T	Lubricant code, Mobile "SS"
	U	Lubricant code, Univis 48
	W	Lubricant code, L-365, Specification 14-O-20 (Ord.)
	W	Wide outer ring
	X	Standard slush
	X	Adapter bearing
	X1	Special width

MFR. FEDERAL BEARINGS CO., INC. (Cont'd) CODE 21760

Prefix	Suffix	Definition
	X2	Special width, metal vacuum seal
	X5	Special width, integrated felt seal
XLS		Extra light series - inch dimensions
	XT	Extra tight fit
	XY	Adapter type bearing with sleeve
	Y	Adapter sleeve
	Z	Lubricant code, WS-1397, specification AN-O-11
	1	Lubricant code, Standard grease M24
	1	Standard fit
	1	ABEC-1 tolerance
	2	Tight fit
	3	Loose fit
	3	ABEC-3 tolerances
	5	ABEC-5 tolerances
	7	ABEC-7 tolerances

How to read FEDERAL ball bearing numbers:

EXAMPLE:

1316MFF (HT)

1316 M FF HT

Basic bearing number
Single row - maximum capacity type
Double steel shields
Andok C grease

EXAMPLE:

7007X5 (LT)

7007 X5 LT

Basic bearing number
Special width, integrated felt seal
Low temperature grease, Beacon M285

MFR. GREEN BALL BEARING CO. CODE 72898

Prefix	Suffix	Definition
CB		Clutch bearing
CB	C	Clutch bearing and carrier assembly
	DB	Pair of bearings ground for duplex mounting back to back
	DF	Pair of bearings ground for duplex mounting face to face
	DT	Pair of bearings ground for duplex mounting in tandem
G		Special bearing (e.g. G-5111)
	L	Loose end play, radial type ball bearing
	L1	Loose fit-up, single row, radial
	L	Light preload, angular contact type ball bearing
	L2	Extra loose fit-up, single row, radial
	LR	Loose radial play, annular ball bearing
	MR	Medium radial play, annular ball bearing
	N	Extra loose end play, radial type annular ball bearing
PB		Direct mounted ball bearing pillow block
	S	Special end play, radial type annular ball bearing
	T	Tight end play, radial type annular ball bearing
	T1	Tight fit-up, single row, radial
	T	Heavy preload, angular contact type annular ball bearing
TR		Precision trolley wheel (e.g. TR-7)
WC		Wide cup type sealed annular ball bearing
	X	Standard end play, radial type annular ball bearing
	X	Medium preload, angular contact type annular ball bearing
	XR	Standard radial play, annular ball bearing
	1	ABEC-1 tolerances
	3	ABEC-3 tolerances
4		Snap ring
	5	ABEC-5 tolerances
7		1 shield
77		2 shields
	7	ABEC-7 tolerances
8		One seal
88		Two seals
9		One synthetic contact seal
99		Two synthetic contact seals
9090		Front wheel bearing, complete
9095		Inner ring (cone) only, front wheel bearing
9096		Outer ring (cup) only, front wheel bearing
9097		Retainer and ball assembly only, front wheel bearing

How to read GREEN ball bearing numbers:

EXAMPLE:

77038X1

77 038 X 1

2 shields

Basic bearing number

Standard end play or internal fit-up

ABEC-1 tolerance

MFR. **THE GWILLIAM CO.** CODE 26635

Prefix	Suffix	Definition
APL		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainer type, medium series
BPL		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainer type, heavy series
BS		Ball thrust step bearing, flat race surface, retainer type
BSR		Ball thrust step bearing, grooved race surface, retainerless, with solid center rivet
CC		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainerless, designed to take a slight radial load
DO		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has a larger OD than other washers, retainer type
DS		Ball thrust bearing, double row, double direction, grooved race surface, rigid, retainer type
DSXC		Ball thrust bearing, double row, double direction, grooved race surface, self-aligning with 2 seating rings, center washer has a smaller ID than other washers, keyway in ID of center washer, retainer type, with spacing collars
DWS		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainer type, with ID sleeve and spacing collars
DXC		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with two seating rings, retainer type, with ID sleeve and spacing collars
GB		Ball thrust bearing, single row, single direction, grooved race surface, rigid retainer type, standard series
GBC		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning without seating ring, retainer type
GBF		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainerless
GBK		Ball thrust bearing, single row, single direction, grooved race surface, rigid keyway on ID of one washer, pressed steel or machined bronze retainer
GC		Journal roller bearing, single row, solid rollers, planished outer race and roller assembly, no inner race
GF		Roller assembly for journal roller bearing, single row, solid rollers
GX		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with seating ring, retainer type
GXC		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with seating ring, retainer type
HR		Roller assembly for journal roller bearing, single row, solid rollers, extra heavy series
HRC		Journal roller bearing, single row, solid rollers, outer race and roller assembly, no inner race, extra heavy series
HRCS		Journal roller bearing, single row, solid rollers, hardened and ground outer and inner races and roller assembly, extra heavy series
IB		Ball thrust bearing, single row, single direction, grooved race surface, rigid, banded ID, retainerless
JR		Roller assembly for journal roller bearing, single row, solid rollers, standard series
JRC		Journal roller bearing, single row, solid rollers, outer race and roller assembly, no inner race, standard series

MFR. THE GWILLIAM CO. (Cont'd) CODE 26635

Prefix	Suffix	Definition
JRCS		Journal roller bearing, single row, solid rollers, hardened and ground outer and inner races and roller assembly, standard series
PII		Ball thrust bearing, single row, single direction, grooved race surface, rigid, banded OD, retainerless
RT		Roller thrust bearing, single row, single direction, flat race surface, rigid, retainer type
RTS		Roller thrust bearing, single row, single direction, 3 washers, flat race surface, self-aligning with seating ring, inner sleeve, retainer type
RTXC		Roller thrust bearing, single row, single direction 3 washers, flat race surface, self-aligning with seating ring, retainer type
RX		Roller thrust bearing, single row, single direction, flat race surface, self-aligning without seating ring, retainer type
RXC		Roller thrust bearing, single row, single direction, flat race surface, self-aligning with seating ring, retainer type
RXCC		Roller thrust bearing, single row, single direction, flat race surface, self-aligning with seating ring, seating ring projects beyond both sides of washers, retainer type
SPL		Ball thrust bearing, single row, single direction, grooved race surface, rigid, retainer type, intermediate series
TC		Ball thrust bearing, staggered balls, single direction, flat race surface, rigid, retainer type

MFR. THE HEIM CO. CODE 73134

Prefix	Suffix	Definition
CFBS		Center flange roller bearing, sealed type
CFBBS		Center flange ball bearing, double row, self-aligning, sealed type, unground
FB		Flanged roller bearing without inner race
FBB		Flanged ball bearing, double row, self-aligning, unground
FBIR		Flanged roller bearing with inner race
FBS		Flanged roller bearing, sealed type
FP		Flange unit, roller bearing type
FPB		Flange unit, self-aligning ball bearing type, unground
HFR		Self-aligning roller type rod end bearing, female shank
HMR		Self-aligning roller type rod end bearing, male shank
P		Pillow block, roller bearing type
PB		Pillow block, self-aligning ball bearing type
PCB		Pillow block, self-aligning ball bearing, cast iron housing
PCR		Pillow block, roller bearing type, cast iron housing

MFR. **HOOVER BALL AND BEARING CO.** CODE **29337**

Prefix	Suffix	Definition
	ABEC-3	ABEC-3 tolerances
	AE-3	ABEC-3 tolerances
	ABEC-5	ABEC-5 tolerances
	E	Noise test (obsolete)
	G	Snap ring
	H	Noise test (obsolete)
JH		Special for Jack & Heintz
	L	Loose fit
	M	Medium fit
	O	Oilite retainer
S		Cartridge type bearing w/o snap ring
S4		Cartridge type bearing w/snap ring
	S	Special fit
	SA	Self-aligning
	SOD	Set screw slot in outside diameter
	T	Tight fit
W		Wide inner ring series
WC		Wide outer ring series, modified for sealing purposes
	X	Special fit
	2	Standard slush
	3	Lubriko M33 lubricant
	4	Shell Alvania #2 lubricant
	4	Lubriko M32 lubricant
5	F	Double row, single shield
	5	Stanoil 15 lubricant
	6	PD-867-A Aero EX-HI lubricant - Govt Spec. MIL-L-3545
7		Single shield
	7	Petrolatum lubricant
8		Single seal
	8	Superla CR Separator Oil
9		Single contact (Teflon) Seal
	9	Stanorust 95 lubricant
	10	F-924 lubricant - Govt Spec. 14-L-3c
	11	PD 950-A AEROVAC 25 lubricant - Govt Spec. MIL-G-3278
	12	UNOBA-1 lubricant
	13	DC44 300 PEN. (SILICONE) lubricant
	14	DC33 310 or 330 PEN. (SILICONE) lubricant
	15	PD-908-A-BRB Lifetime lubricant - Govt Spec. MIL-L-7711
	16	TG 1819 TEXAS CO. lubricant - Govt Spec. MIL-L-3545

MFR. HOOVER BALL AND BEARING CO. (Cont'd) CODE 29337

Prefix	Suffix	Definition
	17	Shell 7194 lubricant - Govt Spec. MIL-G-10924
	18	Keystone 84 Light lubricant
	19	Rayco No. 5 lubricant
	20	AEROSHELL #7 lubricant - Govt Spec. MIL-G-7118
	21	CALOL HT lubricant
	22	Stanorust 12 lubricant
	23	Viscosity 1 lubricant
	24	Stanolith 57 lubricant
	25	Beacon 325 lubricant - Govt Spec. MIL-G-3278
	26	Andok C lubricant
	27	Keystone 89 (Silicone) lubricant
	28	Beacon P-305 lubricant - Govt Spec. MIL-G-15793
	29	Texas Uni-Temp lubricant - Govt Spec. MIL-G-3278
	30	Silica Gel lubricant
	31	Texas 1996 Vnitem 500 lubricant
77		Double shield
87		Single seal, single shield
88		Double seals
99		Double contact (Teflon) seals
9090		Front wheel bearing series
9095		Inner ring, (cone)
9096		Outer ring (Cup), component part of front wheel bearing series
9097		Retainer and ball assembly, component part of front wheel bearing series

How to read HOOVER ball bearing numbers:

EXAMPLE:

WC87016AE3-29

WC 8 7 016 AE3 - 29

Wide outer ring
Single seal
Single shield
Basic bearing number
ABEC-3 tolerance
MIL-G-3278 grease

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. CODE 29883

Prefix	Suffix	Definition
A		Cylindrical inner ring, cylindrical roller bearing (e.g. A1205) variants from standard are labelled AB, AC, etc.
A		Inner race only, self-aligning roller bearing, angular contact
A		Aluminum retainer (cage), cylindrical roller bearing (e.g. ABUB09309LA)
A		Cone and rollers tapered roller bearing
	A	Aluminum retainer (cage) cylindrical roller bearing
A	TS	Cylindrical roller bearing, cylindrical outer ring with two roller retainment rings, cylindrical inner ring, with cage, separable inner ring
A-62	TS	Cylindrical roller bearing, double row of rollers, cylindrical outer ring with two roller retainment rings separable cylindrical inner ring, with cage
A	WB	Cylindrical roller bearing, two lip outer ring, separable cylindrical inner ring, with retainer (cage)
A	Y	Tapered roller bearing
A	YS	Tapered roller bearing
A	Z	Self-aligning roller bearing, non-separable, angular contact type, barrel shaped rollers
A	Z	Tapered roller bearing
A	ZS	Tapered roller bearing
B		Rollers contained by inner ring, cylindrical roller bearing
B		Inner race only, self-aligning roller bearing, angular contact type
B		Cone and rollers tapered roller bearing
	B	Rollers contained by outer ring, cylindrical roller bearing
B	W	Tapered roller bearing
B	YK	Self-aligning roller bearing, non-separable, angular contact type, barrel shaped rollers
B	Z	Tapered roller bearing
BU		Cylindrical roller bearing, two lip inner ring, cage and rollers, no outer ring
BU	L	Cylindrical roller bearing, one lip outer ring, two lip inner ring, rollers and cage, outer ring separable
BU	Z	Cylindrical roller bearing, cylindrical outer ring, two lip inner ring, rollers and cage, outer ring separable
C		Journal roller bearing, outer race and roller assembly, inner race omitted
C		Cone and rollers, tapered roller bearing
C	WA	Tapered roller bearing
CD		Double wide series journal roller bearing without inner race
CA		Internal clearance other than standard but having the same range. (Prefix if rollers are assembled with inner race)
	CA	Internal clearance other than standard but having the same range. (Suffix if rollers are assembled with outer race)
CSD		Special dimensioned, double wide series journal roller bearing without inner race
CSW		Special dimensioned wide series journal roller bearing without inner race
CW		Wide series journal roller bearing without inner race
D		Double width series journal roller bearing
D		Inner race only, self-aligning roller bearing, angular contact type

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. (Cont'd) CODE 29883

Prefix	Suffix	Definition
DIR		Double width series inner race, journal roller bearing
DOR		Double width series outer race, journal roller bearing
E		Journal roller bearing, inner race and roller assembly, no outer race
E		Cone Spacer, tapered roller bearing
EA	ZD	Tapered roller bearing, double row of rollers
EB	ZD	Tapered roller bearing, double row of rollers
ED		Journal roller bearing, double width series, "E" type, outer race omitted
EN		Journal roller bearing, narrow series, "E" type, outer race omitted
G		One piece broached pocket retainer (separator) (if assembled with inner ring) cylindrical roller bearing
G		End ring marking, journal roller bearing
G		Inner race only, self-aligning roller bearing, angular contact type
	G	One piece broached pocket retainer (separator) (if assembled with outer ring), cylindrical roller bearing
H		Inner race only, self-aligning roller bearing, angular contact type
HP		Journal roller bearing, roller assembly and mill treated, planished, split type, outer race
IR		Inner race, journal roller bearing
J		Separable lip, inner ring cylindrical roller bearing (see JRN and RN)
JRN		Inner ring, cylindrical roller bearing, two lipped, one lip separable
JRN	WB	Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable, retainer (cage) type
KA		Inner race and roller assembly, self-aligning roller bearing, angular contact type, barrel shaped rollers
	KA	Roller and ring components matched according to diameter to obtain minimum internal clearance spread
KA	Z	Self-aligning roller bearing, angular contact type, barrel shaped rollers completed with outer and inner race and roller assembly, outer race separable
KB		Inner race and roller assembly, self-aligning roller bearing, angular contact type, barrel rollers
KB	W	Self-aligning roller bearing, separable outer race, angular contact type, barrel shaped rollers
KB	Y	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KB	Z	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KC		Inner race and roller assembly for self-aligning roller bearing, angular contact type, barrel shaped rollers
KC	Y	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KC	Z	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KD		Inner race and roller assembly for self-aligning roller bearing, angular contact, barrel shaped rollers

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. (Cont'd) CODE 29883

Prefix	Suffix	Definition
KD	Y	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KD	Z	Self-aligning roller bearing, angular contact, barrel shaped rollers, separable outer race
KG		Inner race and roller assembly for self-aligning roller bearing, angular contact, barrel shaped rollers
KG	W	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KG	Z	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
KH		Inner race and roller assembly for self-aligning roller bearing, angular contact, barrel shaped rollers
KH	Y	Self-aligning roller bearing, angular contact, barrel shaped rollers, separable outer race
KL		Inner race and roller assembly, self-aligning roller bearing, angular contact type, barrel shaped rollers
KL	W	Self-aligning roller bearing, angular contact, barrel shaped rollers, separable outer race
KN		Inner race and roller assembly for self-aligning roller bearing, angular contact type, barrel shaped rollers
KN	W	Self-aligning roller bearing, angular contact type, barrel shaped rollers, separable outer race
L		Inner race only, self-aligning roller bearing, angular contact type
	L	One lip outer ring, cylindrical roller bearing
M		Journal roller bearing, medium series, wound rollers
	M	Full complement of rollers, no retainer (cage, separator), cylindrical roller bearing
MC		Medium series journal roller bearing without inner race, wound rollers
MIR		Inner race, medium series journal roller bearing
MOR		Outer race, medium series, journal roller bearing
MRA		Roller assembly, journal roller bearing, wound rollers, medium series
N		Journal roller bearing, narrow series
N		Inner race only, self-aligning roller bearing angular contact type
NC		Narrow series journal roller bearing without inner race
NIR		Inner race, journal roller bearing, narrow series
NOR		Outer race, journal roller bearing, narrow series
NRA		Roller assembly, journal roller bearing, narrow series
PRR	WB	Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable and extends beyond outer ring retainer (cage type)
OR		Outer race, journal roller bearing
P		Separable inner ring lip, adapted for use with RR type inner ring (see PRR and RR)
	P	Precision grade RBEC 5 variants of higher accuracy are symboled PA, PB, etc. in order of their occurrence
	PA	See suffix P
	PB	See suffix P

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. (Cont'd) CODE 29883

Prefix	Suffix	Definition
PRR		Inner ring, cylindrical roller bearing, two lipped, one lip separable and extended
PRR	WB	Cylindrical roller bearing, two lip outer ring, two lip inner ring, one inner ring lip separable and extended
R		One lipped inner ring, cylindrical roller bearing
R	TS	Cylindrical roller bearing, one lip inner ring, cylindrical outer ring with two roller retainment rings, cage (retainer) type
R	YS	Cylindrical roller bearing, one lip outer ring with one roller retainment ring, one lip inner ring, cage (retainer) type
R	WB	Cylindrical roller bearing, two lip outer ring, one lip inner ring cage (retainer) type
RA		Roller assembly, journal roller bearing
RN		Inner ring, cylindrical roller bearing, one lip adapted to receive separable second "J2" type lip - see JRN prefix
RR		Inner ring, cylindrical roller bearing, adapted to receive separable "P" type lip (see PRR)
	RZ	Self-aligning roller bearing, angular contact type, barrel shaped rollers, no inner ring
S		Journal roller bearing, solid outer race and roller assembly, no inner race
S		Special dimensions, journal roller bearing or component parts
S		Silver plated retainer (0200-0300-0500 series) when assembled with inner ring, cylindrical roller bearing
	S	Retainer (cage, separator) type cylindrical roller bearing
	S	Silver plated retainer (0200-0300-0500 series) when assembled with outer ring, cylindrical roller bearing
SIR		Special dimensions, inner race, journal roller bearing
SD		Special dimensioned double wide series, journal roller bearing
SDIR		Inner race, special dimensioned double wide series, journal roller bearing
SDOR		Outer race, special dimensioned double wide series, journal roller bearing
SDRA		Roller assembly, special dimensioned double wide series, journal roller bearing
SOR		Special dimensions, outer race, journal roller bearing
SW		Special dimensioned, wide series, journal roller bearing
SWIR		Special dimensioned, wide series, inner race, journal roller bearing
SWOR		Special dimensioned, wide series, outer race, journal roller bearing
SWRA		Special dimensioned, wide series, roller assembly, journal roller bearing
	SZ	Self-aligning roller bearing, angular contact type, barrel shaped rollers, no inner ring
	T	Cylindrical outer ring, cylindrical roller bearing, with two roller retainment rings
T		Notched inner race construction, journal roller bearing
TA	Z	Self-aligning roller bearing, double row of rollers, non-separable, angular contact type, barrel shaped rollers
	TIR	Notched inner race, journal roller bearing
TM		Journal roller bearing, notched inner ring construction, medium series
	TM	Cylindrical roller bearing, cylindrical outer ring with two roller retainment rings, no inner ring, full complement of rollers

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. (Cont'd) CODE 29883

Prefix	Suffix	Definition
TMIR		Notched inner race, journal roller bearing, medium series
	TOR	Notched outer race, journal roller bearing
	TS	Cylindrical roller bearing, cylindrical outer ring with two roller retainment rings, with cage (retainer), no inner ring
TSIR		Notched inner race, journal roller bearing
TSW		Journal roller bearing, special dimensioned wide series, notched inner ring construction
TSWIR		Notched inner race, special dimensioned wide series, journal roller bearing
TW		Journal roller bearing, wide series, notched inner race construction
TWIR		Notched inner race, wide series, journal roller bearing
TX		Notched inner race construction, journal roller bearing
TXW		Notched inner race construction, wide series, journal roller bearing
U		Two lipped inner ring, cylindrical roller bearing
U	TM	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, full complement of rollers
U	TS	Cylindrical roller bearing, two lip inner ring, cylindrical outer ring with two roller retainment rings, cage (retainer) type
U	W	Cylindrical roller bearing, two lip inner ring, two lip outer ring, retainer (cage type), non-separable
U	YM	Cylindrical roller bearing, two lip inner ring, one lip outer ring with one roller retainment ring, full complement of rollers
U	YS	Cylindrical roller bearing, two lip inner ring, one lip outer ring with one roller retainment ring, cage (retainer) type
W		Journal roller bearing, wide series (200 series only)
	W	Two lip outer ring, cylindrical roller bearing
	W	Outer ring only, self-aligning roller bearing, angular contact type
	WA	Cup, tapered roller bearing
	WB	Cylindrical roller bearing, two lip outer ring, cage (retainer) type, no inner ring
WIR		Inner race, journal roller bearing, wide series
WOR		Outer race, journal roller bearing, wide series
WRA		Roller assembly, wide series, journal roller bearing
X	X	Additional suffixes and prefixes to indicate special or experimental construction or detail
	Y	One lip outer ring, cylindrical roller bearing, with one roller retainment ring
	Y	Outer race only, self-aligning roller bearing, angular contact type
	YM	Cylindrical roller bearing, one lip outer ring with one roller retainment ring, no inner ring, full complement of rollers
	YS	Cylindrical roller bearing, one lip outer ring with one roller retainment ring, cage (retainer) type, on inner ring
	YS	Cup, tapered roller bearing
	Z	Cylindrical outer ring, cylindrical roller bearing
	Z	Outer ring only, self-aligning roller bearing, angular contact type
	Z	Cup, tapered roller bearing

MFR. HYATT BEARINGS DIV., GENERAL MOTORS CORP. (Cont'd) CODE 29883

Prefix	Suffix	Definition
	ZA	Cylindrical outer ring, cylindrical roller bearing, with special details or construction
	ZB	Cylindrical outer ring, cylindrical roller bearing, with special details or construction
	ZD	Double cup, tapered roller bearing
	ZS	Cup, tapered roller bearing

How to read HYATT roller bearing numbers:

EXAMPLE:

A1305TS

A 1305 TS

A - TS Cylindrical roller bearing, cylindrical outer ring with two roller retainment rings, cylindrical inner ring, with cage, separable inner ring

Basic bearing number

EXAMPLE:

BU1307Z

BU 1307 Z

BU - Z Cylindrical roller bearing, cylindrical outer ring, two lip inner ring, rollers and cage, outer ring separable

Basic bearing number

MFR. KAYDON ENGINEERING CORP. CODE 32828

Prefix	Suffix	Definition
AF		Annular ball bearing, angular contact, pair of bearings duplex mounted
AIC		Annular ball bearing, split inner ring, four point ball contact
BLA		Annular ball bearing, angular contact, metric series
BLC		Annular ball bearing, non-loading groove construction, metric series
BM		Annular ball bearing, angular contact, counterbored outer ring, metric series
BT		Ball thrust bearing, grooved races, bronze retainer
BTA		Ball thrust bearing, angular contact races
BTB		Banded ball thrust bearing, grooved races
BTDD		Ball thrust bearing, double direction type, rigid
BTDS		Ball thrust bearing, double direction, self-aligning
BTE		Ball thrust bearing, flat races
BTS		Ball thrust bearing, self-aligning
CV		Annular ball bearing, radial non-loading groove construction, very thin section
HA		Annular ball bearing, angular contact, inch type, heavy series
HC		Annular ball bearing, radial, non-loading groove construction, inch type heavy series
HM		Annular ball bearing, angular contact, counterbored outer ring, inch type, heavy series
JR		Journal roller bearing, heavy series
JRS		Journal roller bearing, superheavy series
LC		Annular ball bearing, radial, non-loading groove construction, inch type, light series
RF		Cylindrical roller bearing, two lip inner ring, one lip outer ring
RFW		Wide type cylindrical roller bearing, two lip inner ring, one lip outer ring
RM		Cylindrical roller bearing, mill type
RN		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring
RND		Cylindrical roller bearing, double row, precision for spindles
RNW		Wide type cylindrical roller bearing, two lip inner ring, cylindrical outer ring
RP		Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable
RPW		Wide type cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable
RS		Spherical roller bearing
RT		Roller thrust bearing, flat races
RTB		Banded roller thrust bearing
RTC		Conical roller thrust bearing
RTDD		Roller thrust bearing, double acting, rigid
RTDS		Roller thrust bearing, double acting, self-aligning
RTS		Roller thrust bearing, self-aligning
RU		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring
RUW		Wide type cylindrical roller bearing, two lip outer ring, cylindrical inner ring

MFR. KAYDON ENGINEERING CORP. (Cont'd) CODE 32828

Prefix	Suffix	Definition
RX		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring, extra light series
TDI		Tapered roller bearing, double row, double cone
TDO		Tapered roller bearing, double row, double cup
TFR		Tapered roller bearing, four row, two double cones, three cups
TNA		Tapered roller bearing, double row, non-adjustable
TS		Tapered roller bearing, single row, normal angle
TSF		Tapered roller bearing, single row, flanged cup
TSS		Tapered roller bearing, single row, steep angle

MFR. **KILIAN MFG. CO.** CODE **75277**

Prefix	Suffix	Definition
D		Double row radial type bearing, unground
F		Unground single row ball bearing with flanged outer ring
K		Aircraft type bearings
SR		Single row radial type unground bearing
U		Underground raceways
	1	±.0005 tolerance, unground type
	5	±.002 tolerance, unground type

How to read KILIAN ball bearing numbers:

EXAMPLE:

UK6A-1

U K 6A -1

Underground raceways
Aircraft type bearing
Basic bearing number
±.0005 tolerance, unground type

NOTE: Aircraft bearings discontinued.

MFR. **LANDIS AND GYR, INC.** CODE **75523**

Prefix	Suffix	Definition
C		Closed cup shaped pivot bearing without inner ring, (internal self-aligning type)
CF		Closed cup shaped pivot bearing without inner ring, containing more and smaller balls than series prefixed with C, (internal self-aligning type)
CT		Open cup shaped pivot bearing without inner ring, (internal self-aligning type)
E		Magneto type bearing
	J	Radial clearance
N		Cylindrical roller bearing with separable outer ring, roller assembly retained by a retainment ring on the inner ring
NP		Cylindrical roller bearing, self-contained, with two shields
NU		Cylindrical roller bearing with separable inner ring and two shields
O		Closed cup shaped pivot bearing with integral inner ring, (angular contact type)
OD		Closed cup shaped pivot bearing with separable inner ring, (angular contact type)
ODT		Open cup shaped pivot bearing with separable inner ring, (angular contact type)
OR		Closed cup shaped pivot bearing with integral inner ring and loading spring, (angular contact type)
ORT		Open cup shaped pivot bearing with integral inner ring and loading spring,(angular contact type)
OT		Open cup shaped pivot bearing with integral inner ring,(angular contact type)
P		Open cup shaped pivot bearing without inner ring, (internal self-aligning type)
	P	Precision grade for pivot bearings and radial bearings without inner rings
PF		Open cup shaped pivot bearing without inner ring, containing more and smaller balls than the series prefixed with P, (internal self-aligning type)
R		Standard radial ball bearings having standard dimensions and tolerances (metric series)
	R	Two piece ball retainer
RB		Radial ball bearing without inner ring, with thrust taken by three balls and the end of the shaft has a 150 ° cone
RC		Radial ball bearing without inner ring, with thrust taken on inside polished plate and rounded end of shaft
RF		Radial ball bearing with filmoseal type closure
RL		Radial ball bearing without inner ring, with no thrust load component
RO		Radial ball bearing series with wider tolerances than R series
RP		Radial ball bearing without inner ring, with thrust taken on outside polished plate and shaft shoulder
S		All special bearings with stamped outer ring
	S	Snap type ball retainer
SM		All special bearings with hardened and ground rings
UL		New designation for extra light series
	1	ABEC-1 tolerances
	3	ABEC-3 tolerances
	5	ABEC-5 tolerances
	14	Special torque requirement

MFR. LANDIS AND GYR, INC. (Cont'd) CODE 75523

How to read LANDIS AND GYR bearing numbers:

EXAMPLE:

R516R5-14

R 516 R 5 -14

Radial bearing
Basic bearing number
Two piece ball retainer
ABEC-5 tolerance
Special torque requirements

MFR. **LINK-BELT CO.** CODE **82994**

Prefix	Suffix	Definition
	A	Felt-neoprene seals, mounted unit
C		Cartridge unit, direct mounted ball bearing, fixed (C300 series)
	C	Closed end, pillow block
C2		Direct mounted concavex roller bearing cartridge unit (C2-400 series)
	CE	Cartridge unit, direct mounted ball bearing, floating (CE300 series)
DE		Double row self-aligning concavex roller bearing
DE	A	Double row self-aligning concavex roller bearing, tapered bore, furnished with adapter
DE	T	Double row self-aligning concavex roller bearing with tapered bore
DS3	A	Take-up and frame unit, protected screw type, concavex roller type (DS3-400A series)
E		Floating bearing, mounted unit
F		Direct mounted concavex roller bearing flange housing unit (F-400 series)
F		Flange housing unit, direct mounted ball bearing, fixed (F200-300 series)
	F	Four bolt hole base
FC		Flange cartridge unit, direct mounted ball bearing, fixed (FS300 series)
FC		Direct mounted concavex roller bearing flange cartridge unit (FC400 series)
FCE		Flange cartridge unit, direct mounted ball bearing, floating (FCE300 series)
FE		Flange housing unit, direct mounted ball bearing, floating (FE300 series)
GP		Adapter mounted concavex roller bearing pillow block, felt seals, split housing (GP6800-6900-7800-7900 series)
GPK	F	Adapter mounted concavex roller bearing pillow block, split steel housing, felt seals, four bolt hole base (GPK 6800F and GPK 6900F series)
GS2	A	Take-up and frame unit, bucket elevator head type, concavex roller bearing type (GS2-400A series)
H		Hanger box unit, direct mounted ball bearing (H200 series)
JPS		Direct mounted ball bearing pillow block, single row, external self-aligning bearing, pressed steel housing (JPS-200 series)
LP		Direct mounted ball bearing pillow block, split housing, with fixed bearing (LP200-300 series)
LP		Adapter mounted concavex roller bearing pillow block, spiral seals, split housing (LP6800-6900-7800-7900 series)
LPE		Direct mounted ball bearing pillow block, split housing, with floating bearing (LPE 200-300 series)
LPK	F	Adapter mounted concavex roller bearing pillow block, split steel housing, spiral seals, four bolt hole base (LPK6800F and LPK 7800F series)
NT		Take-up and frame unit, rigid channel type frame (NT200 series), ball bearing type
P		Direct mounted ball bearing pillow block, single row external self-aligning bearing, fixed (P200-P300 series)
P2		Direct mounted ball bearing pillow block (P2-200 series only)
P2		Direct mounted concavex roller bearing pillow block (P2-400; P2-500 series)
PE		Direct mounted ball bearing pillow block, single row external self-aligning bearing, floating (PE300 series)
PE2		Direct mounted concavex roller bearing pillow block with floating bearing (PE2-500 series)

MFR. LINK-BELT CO. (Cont'd) CODE 82994

Prefix	Suffix	Definition
T		Take-up unit, direct mounted ball bearing (T200-300 series)
T		Take-up unit, direct mounted concavex roller bearing (T400 series)
	T1	With oil cup
	T2	With bearing locknut and lockwasher
	T3	With oil cup, bearing locknut and lockwasher
TAS		Take-up and frame unit, wall mounting type (TAS200 series), ball bearing type
TBS		Take-up and frame unit, floor mounting type (TBS200 series), ball bearing type
TDS		Take-up and frame unit, protected screw type (TDS200 series), ball bearing type
TGS		Take-up and frame unit, bucket elevator head type (TGS200 series), ball bearing type
U	D	Replacement ball bearing with collar, setscrews, and seals for mounted units, open end
U	E	Replacement ball bearing with seal and collar only
U	C	Replacement ball bearing with collar, setscrews, one seal and end closure for mounted unit (closed end)
UE	A	Assembly number of bearing with aligning ring and collar for LPE series pillow block
2		Unmounted concavex roller bearing - replacement for mounted unit - bearing only (2-400 series)
2	A	Unmounted concavex roller bearing with collar and setscrews (2-400A series)

How to read LINK-BELT bearing numbers:

EXAMPLE:

U215E

U 215 E

U - E Replacement ball bearing with seal and collar only

Basic bearing number

MFR. MARLIN-ROCKWELL CORP. CODE 38443

Prefix	Suffix	Definition
	A	Angular contact, double row (obsolete)
	A	Silver plated bore
	A	Amount of lubricant - .1 full and all external surfaces coated
	A	Free running, no end play
	A	Steel retainer (when preceded by three digit number, e.g., 301A)
	A	Extra quiet (new system)
	A	(Followed by numeral) noise test, extra quiet (obsolete)
	A	Aviation quality
	AA	Silver plated bore and outside diameter
	AAA	Silver plated outside diameter
	AF	Two piece outer ring and bronze retainer, single shield, double row type bearing
	AS	Double row, non-loading groove construction, angular contact type, with cast bronze finger type retainer
	ASH	Double row, non-loading groove construction, angular contact type, bronze retainer
	B	Amount of lubricant - .2 full and all external surfaces coated
	B	Grooved races, inch standards - thrust type
	B	Outwardly converging contact angle, double row bearing
	B	Machined non-metallic (bakelite) retainer (when preceded by three digit number, e.g., 307B)
	B	Quiet (new system)
	B	(Followed by numeral) noise test, quiet or standard (obsolete)
	B	Ordnance, Navy, and Army Engineers Inspection
	BAKE	Bakelite compound retainer (see suffix B)
BC		Bell crank bearing, aircraft type
	C	Single row, non-loading groove construction (same as S except small balls)
	C	Flat races, inch standards - thrust type
	C	Bronze retainer, (when preceded by three digit number e.g. 303C)
	C	Amount of lubricant - .3 full
	C	Copper plate, bore only - propeller blade type
	CC	Copper plate, bore and outside diameter - propeller blade type
	CCC	Copper plate, outside diameter only - propeller blade type
	CONV	Conveyor roller bearing
	CT	Clutch throwout type (plain)
	CTB	Conrad, adapter type bearing with tapered bore (obsolete)
	CTM	Clutch throwout type with flush housing
	CTQ	Clutch throwout type with extended housing
	CTR	Clutch throwout type with housing and grease fitting
	D	Duplex (matched pair)
	D	Amount of lubricant - .4 full and all external surfaces coated
	D	Die cast bronze cage when preceded by three digit number-306D

MFR. MARLIN-ROCKWELL CORP. (Cont'd) CODE 38443

Prefix	Suffix	Definition
	DB	Duplex back to back
	DF	Duplex face to face
	DT	Duplex - tandem
	E	Amount of lubricant - .5 full
	E	Sand cast bronze cage when preceded by three digit number - 306E
	E	Lubricant symbol, Univis No. 48
	EO	Concave outside diameter
	ES	Elevator special
	F	Flat seat, thrust type
	F	Two-piece pressed steel retainer (example 38F Q7A7-F)
	F	Amount of lubricant - .6 full and all external surfaces coated
	F	Strip bronze cage when preceded by three digit number - 306F
	F	One shield
	FA	Full type, aviation rocker arm (201-FA size)
	FF	Two shields
	FFS	Two felt seals
	FG	Shield and snap ring
	FS	Felt seal
	FSF	Felt seal and shield
	FSFG	Felt seal, shield and snap ring
	FSG	Felt seal and snap ring
	FW	Same as FA (200 series)
	F4	Pressed bronze retainer, two piece, riveted (obsolete-replaced by 303C or 306C suffix)
	G	Duralumin cage - 24ST when preceded by three digit number - 306G
	G	Amount of lubricant - .7 full and all external surfaces coated
	G	Snap ring
G		Snap ring on same side as shield
G	M	Snap ring on slotted side - loading groove construction - G207M
G	SF	One shield, snap ring and groove on same side as shield
	H	Lubricant symbol, Andok C
	H	Amount of lubricant - .8 full and all external surfaces coated
	H	Stainless iron or steel cage when preceded by 3 digit number 306H
	H	Old width (less than standard) double row
	J	Monel metal cage when preceded by 3 digit number - 306J
	J	Amount of lubricant - .9 full and all external surfaces coated
	K	Double row standard width, SRB type (5200K series) also "K" used with 7000 series to indicate outer ring is narrower than inner ring
	K	Amount of lubricant
	K	Malleable iron cage when preceded by 3 digit number - 306K

MFR. MARLIN-ROCKWELL CORP. (Cont'd) CODE 38443

Prefix	Suffix	Definition
	L	Loose internal fit
	LT	Lubricant symbol, ANG3A, low temperature
	M	Forged bronze cage - Mueller 803 silicon iron when preceded by 3 digit number - 306M
	M	Maximum capacity type (filling notches and stayrod type cage - more balls than S or C types)
	MFL	Maximum capacity type with 1 shield and loose internal fit
	MX	Maximum capacity type with taper bore
	M4	Machined bronze retainer, one piece, centered by balls (obsolete - replaced by 314C suffix)
	M8	Machined non-metallic retainer, one piece solid bakelite compound, centered by balls (obsolete - replaced by 314B suffix)
	N	Amount of lubricant, one drop oil
	N	Olite bronze cage when preceded by 3 digit number - 306N
	NV	Naval inspection
	N4	Machined bronze retainer, one piece, inner ring race land riding (obsolete - replaced by 315C suffix)
	N8	Machined non-metallic retainer, one piece solid bakelite compound, inner ring land riding (obsolete - replaced by 315B suffix)
	O	Amount of lubricant - two drops oil
	P	Single row, radial thrust (angular contact)
	P	Nylon cage when preceded by 3 digit number - 306P
	PA	Hycar seal material
	PR	Propeller shaft bearing. Similar to "S" but designed to take misalignment
	Q	ABEC-1 tolerances (obsolete - see suffix 1)
	R	Cast iron cage when preceded by 3 digit number - 306R
	R	"R" radial type (low shoulder on one side - maximum number of balls - no filling notches)
	RDM	Dynamometer specifications
	RDT	Radial bearing with split inner race
RE		Rod end bearing
	RM	European width
	RS	Radial contact, standard width, bronze separator, double row, Conrad type
	RSH	Radial contact, width greater than standard, bronze separator, double row, Conrad type
	RT	100% radial thrust (obsolete)
	RTB	Radial adapter type bearing (obsolete)
	RX	Radial bearing only, for adapter sleeve
	RXY	Radial adapter type (complete with adapter)
	R2	Two piece outer ring construction, double row
	S	ABEC-3 tolerances (obsolete - see suffix 3)
	S	Super Conrad type (no filling notches - ribbon type cage - fewer ball than "M" and larger balls than "C")

MFR. **MARLIN-ROCKWELL CORP. (Cont'd)** CODE **38443**

Prefix	Suffix	Definition
	S	(Followed by numeral) noise test - super quiet
S	S	Inch size series
	SB	Super Conrad type - inverted contact angle (double row)
	SFFC	Cartridge type with 2 shields
	SFFCG	Cartridge type with 2 shields and snap ring
	SFFXY	Super Conrad type with 2 shields, taper bore and adapter sleeve
	SH	Super Conrad type - width greater than standard
	SL	Super Conrad type with loose internal fit
	SP	ABEC-5 tolerances (obsolete see suffix 5)
	ST	Stainless steel
	SV	Super Conrad type - narrow width
	SWI	Super Conrad type with wide inner ring
	SX	Super Conrad type - taper bore, for adapter sleeve
	SXY	Super Conrad type - taper bore - adapter sleeve
	T	AMS 4640 (modified) bronze cage when preceded by 3 digit number - 306T
	T	ABEC-1 tolerance
	TB	Adapter type bearing (obsolete)
	U	Thrust type with aligning washer (see under thrust bearings)
	U	AMS 4121 duralumin cage when preceded by 3 digit number - 306U
	U4	Machined bronze retainer, two piece, riveted, ball centered (obsolete - replaced by 307C suffix)
	U8	Two piece solid bakelite compound (riveted) ball centered retainer
	U9	Machined non-metallic (bakelite) retainer - two piece, riveted, ball centered (obsolete - replaced by 307B)
	USP	ABEC-7 tolerances (obsolete - see suffix 7)
	V	Forged silicon iron bronze cage Janney CM6 or equivalent when preceded by 3 digit number - 306V
	V	Single row, maximum capacity, narrow width (same bore and outside diameter as standard)
	V4	Machined bronze retainer, two piece (riveted), inner ring land riding (obsolete replaced by 308C suffix)
	V8	Machined non-metallic (bakelite) retainer, two piece, inner ring land riding (obsolete - replaced by 308B suffix)
	WFI	Wide inner ring type with set screw and shield
	WI	Wide inner ring, maximum capacity type (width of inner ring is same as that of double row bearing)
	X	Taper bore bearing
	X	Special tolerances
	X	Amount of lubricant. Special greasing instructions
	X	Double row bearing only, for adapter sleeve
	X	Special internal fit-up

ARLIN-ROCKWELL CORP. (Cont'd) CODE 38443

Suffix	Definition
XY	Taper bore bearing with adapter sleeve
Y	Adapter sleeve
Z	Synthetic rubber seal (Buna Seal)
ZZ	Two synthetic contact seals
1	ABEC-1 tolerances (formerly Q)
1	Lubricant symbol, #62 grease
2	Lubricant symbol, Andok B
2	.0004" total radial tightness (nominal) (obsolete see 02)
02	.0004" total radial tightness (nominal)
3	Lubricant symbol, Aero EP LO-HI, Spec MIL-G-7118
3	ABEC-3 tolerances (formerly S)
3	.0002" total radial tightness (nominal) (obsolete see 03)
03	.0002" total radial tightness (nominal)
4	Lubricant symbol, L-401 Oil, Spec MIL-L-6085
4	Line to line (zero) radial clearance (nominal) (obsolete see 04)
04	Line to line (zero) radial clearance (nominal)
5	Lubricant symbol MILVAC-10924, Spec MIL-G-10924
5	ABEC-5 tolerances (formerly SP)
5	.0002" total radial looseness (nominal) (obsolete see 05)
05	.0002" total radial looseness (nominal)
6	Lubricant symbol, LG-0002, Spec MIL-G-10924
6	.0004" total radial looseness (nominal) (obsolete see 06)
06	.0004" total radial looseness (nominal)
7	Lubricant symbol, CALOL OHT grease
7	ABEC-7 tolerances (formerly USP)
7	.0006" total radial looseness (maximum) (obsolete see 07)
07	.0006" total radial looseness (nominal)
8	Lubricant symbol, MIDCO Instrument #287 grease
8	.0008" total radial looseness (nominal) (obsolete see 08)
08	.0008" total radial looseness (nominal)
9	Lubricant symbol, AC-1789-19 (ST1-168)
9	.0010" total radial looseness (nominal) (obsolete see 09)
09	.0010" total radial looseness (nominal)
10	.0012" total radial looseness (nominal)
11	.0014" total radial looseness (nominal)
11	Lubricant symbol, Cyprina #3 Shell
12	.0016" total radial looseness (nominal)
18	Lubricant symbol, Dearborn No. Oxid #903 (MIL-C-11796)
28	Lubricant symbol, A-29 Special

MFR. MARLIN-ROCKWELL CORP. (Cont'd) CODE 38443

Prefix	Suffix	Definition
	47	Lubricant symbol, Univis Oil #P-48
	48	Lubricant symbol, S-58
	54	Lubricant symbol, Unoba grease
	55	Lubricant symbol, Royco #5
	57	Lubricant symbol, Royco #6A
	58	Lubricant symbol, Beacon M-285
	59	Lubricant symbol, Lubriko M-31
	60	Lubricant symbol, Andok C, Spec 14L3
	61	Lubricant symbol, Lubriko M-32
	63	Lubricant symbol, Keystone #84 - Medium
	64	Lubricant symbol, S-57
	65	Lubricant symbol, N-11
	66	Lubricant symbol, 66-C
	67	Lubricant symbol, WS-429 Oil, Spec MIL-L-7870
	69	Lubricant symbol, Keystone 3-CH Medium, Spec MIL-L-3545
	70	Lubricant symbol, Strona LT-1
	71	Lubricant symbol, Unitemp grease, Spec MIL-G-3278
	72	Lubricant symbol, Lubriko M-24
	73	Lubricant symbol, Regal Starfax Special, Spec MIL-L-7711
	74	Lubricant symbol, W-56 grease
	75	Lubricant symbol, Beacon 325, Spec MIL-G-3278
	76	Lubricant symbol, Keystone 89 Medium Silicone
	77	Lubricant symbol, Aerovac 25, Spec MIL-G-3278
	78	Lubricant symbol, Texas HI-Temp., Spec MIL-L-3545
	79	Lubricant symbol, Univis #90 Oil
	80	Lubricant symbol, DC-44 Silicone
	81	Lubricant symbol, NO-OX-ID #570-STD PS
	82	Lubricant symbol, NO-OX-ID #580-STD Production
	83	Lubricant symbol, NO-OX-ID #586-Spec AN-C-124
	84	Lubricant symbol, NO-OX-ID #720
	85	Lubricant symbol, NO-OX-ID #750B
	86	Lubricant symbol, NO-OX-ID #750M
	87	Lubricant symbol, 102-BCR, Spec AN-C-124
	88	Lubricant symbol, DC-200 VISC. 1000 CSTKS. at 250 Deg. C
	89	Lubricant symbol, Winsor L-245 Oil, Spec MIL-L-6085
	90	Lubricant symbol, Aeroshell #11, Spec MIL-G-3278
	91	Lubricant symbol, DC-33 Silicone
	92	Lubricant symbol, Royco #540
	93	Lubricant symbol, Univis #6 Oil, Spec (MIL-L-6081)

MFR. **MARLIN-ROCKWELL CORP. (Cont'd)** CODE **38443**

Prefix	Suffix	Definition
	94	Lubricant symbol, Aviation High Temp Grease #1, Spec MIL-L-3545
	95	Lubricant symbol, CB-600 Grease, Spec 14-G-8
	96	Lubricant symbol, Battenfield 818 Oil
	97	Lubricant symbol, SG-4410, Spec MIL-L-3545
	98	Lubricant symbol, L-281 Oil, Spec 14-O-20
	99	Lubricant symbol, Beacon P-305, Spec AXS-1169
	301A	Standard pressed steel retainer
	302A	Standard pressed steel retainer
	303A	Standard pressed steel retainer
	303C	Pressed bronze retainer, two piece, riveted
	304C	Standard pressed steel retainer
	305A	Standard pressed steel retainer
	306A	Standard pressed steel retainer
	306C	Pressed bronze retainer, two piece, riveted
	307	Machined retainer, two piece, riveted, ball centered
	307A	Machined steel retainer, two piece, riveted, ball centered
	307B	Machined non-metallic (bakelite) retainer, two piece, riveted, ball centered
	307C	Machined bronze retainer, two piece, riveted, ball centered
	308	Machined retainer, two piece inner ring land riding
	308A	Machined steel retainer, two piece, riveted, inner ring land riding
	308B	Machined non-metallic (bakelite) retainer, two piece, riveted, inner ring land riding
	308C	Machined bronze retainer two piece, riveted, inner ring land riding
	309	Machined retainer, two piece, outer ring land riding
	310	Two piece cast riveted retainer
	311	Two piece pressed bridge type retainer
	312	Two piece pressed water wheel type retainer
	313	One piece pressed "Strom" retainer
	314	Machined retainer, one piece, ball centered
	314A	Machined steel retainer, one piece, ball centered
	314B	Machined non-metallic retainer, one piece, ball centered
	314C	Machined bronze retainer, one piece, ball centered
	315	Machined retainer, one piece, inner ring land riding
	315A	Machined steel retainer, one piece, inner ring land riding
	315B	Machined non-metallic (bakelite) retainer, one piece, inner ring land riding
	315C	Machined bronzed retainer, one piece, inner ring land riding
	316	Machined retainer, one piece, outer ring land riding
	317	One piece cast prong type retainer
	318	One piece cast back to back retainer
	319	One piece pressed snap-on heat treated retainer

MFR. **MARLIN-ROCKWELL CORP. (Cont'd)** CODE **38443**

Prefix	Suffix	Definition
	320	One piece pressed snap-on, soft (not heat treated) retainer
	321	One piece wire type retainer
	322	One piece pressed retainer (National purchased)
	323	Two piece prong type retainer
	324	One piece molded snap-on retainer
	325	One piece pressed retainer - for 7P6
	326	Machined retainer, two piece, drive screw type, inner ring land riding
	327	Machined retainer, one piece, ball centered, outside pitch diameter
	328	Machined retainer, one piece, snap-on type
	329-339	Special feature code number (retainer)
	340	One piece pressed semi-socket retainer
	341	Two piece pressed socket riveted retainer
	342	One piece, solid, alternate drilled pockets, peened retainer
	343	Two piece solid riveted retainer
	344	Two piece pressed box type retainer
	345	One piece pressed channel retainer
	346	One piece pressed ("National" purchased) retainer
	347	One piece solid, straight drilled pockets, peened retainer
	348	One piece solid molded retainer
	349	Two piece pressed box type retainer
	350	One piece wire type retainer
	360	One piece solid bent inside fingers, non-separable, outer ring land riding retainer
	361	One piece solid bent inside fingers, separable, outer ring land riding retainer
	362	One piece, solid roll, peened, inside fingers, outer ring land riding retainer
	363	One piece, solid, thin web section, slotted outside lugs, bent, inner ring land riding retainer
	364	One piece, solid, thick web section, slotted outside lugs bent, inner ring land riding retainer
	365	One piece, solid roll, peened, outside lugs, inner ring land riding retainer
	366	Two piece, solid, riveted, straight web, outside diameter, milled pockets, roller centered retainer
	367	Two piece, solid, riveted, raised web outside diameter, milled pockets, roller centered retainer
	370	One piece, solid, bent inside fingers, non-separable inner ring land riding retainer
	371	One piece, solid, bent inside fingers, separable, inner ring land riding retainer
	372	One piece, solid roll, peened inside fingers, inner ring land riding retainer
	373	One piece, solid, thin web section, slotted outside lugs, bent, outer ring land riding retainer
	374	One piece, solid, thick web section, slotted outside lugs, bent, outer ring land riding retainer

MFR. MARLIN- ROCKWELL CORP. (Cont'd) CODE 38443

Prefix	Suffix	Definition
	375	One piece, solid, roll peened outside lugs, outer ring land riding retainer
	376	Two piece, solid, riveted, straight web outside diameter, milled pockets, inner ring land riding retainer
	377	Two piece, solid, riveted, raised web outside diameter, milled pockets, inner ring land riding retainer
	386	Two piece, solid, riveted, straight web outside diameter, milled pockets, outer ring land riding
	387	Two piece, solid, riveted, raised web outside diameter, milled pockets, outer ring land riding
	390	Special retainer design (see detailed drawing)
	398	Retainer body
	399	Retainer (cage) cover

How to read MARLIN-ROCKWELL ball bearing numbers:

EXAMPLE:

204R SPXA LT

204 R SP X A LT

Basic bearing number
Radial type
ABEC-5 tolerance
Special internal fit-up
Extra quiet
Low temperature grease, ANG 3A

EXAMPLE:

206SF306A306A87

206 S F 3 06 A 306A 87

Basic bearing number
Super conrad
One shield
ABEC-3 tolerance
0004" total radial looseness
Extra quiet
Standard pressed steel retainer
Lubricant, ANC-124

NOTE: Noise test and speed test symbols may be disregarded in analyzing bearing construction or special characteristics.

Dash numbers suffix to the basic bearing numbers designates deviation from standard.

MFR. MC GILL MFG. CO., INC. CODE 39317

Prefix	Suffix	Definition
	A	Pressed steel retainer (all ball bearing series)
	ABEC-3	ABEC 3 tolerances
	ABEC-5	ABEC 5 tolerances
	AC	Angle of contact
ASMO		Multirol needle bearing, single row, outer race and roller assy self-aligning, spher. hsg and OD
	B	Pressed metal, non-ferrous retainer (all ball bearing series)
BB		Special ball bearings
BR		Special roller bearings
	BT	Closed bore
	BU	Ball riding "U" shaped retainer
	C	Standard bearing completely chrome plated
CF		Multirol needle bearing, cam follower, needles and stud
	CP	Standard bearing with chrome plated OD, all other exposed surfaces cadmium plated
	CR	Stainless steel (corrosion resisting)
CYR		Multirol needle bearing, cam follower (heavy section outer race, needles and bore type inner race, self-contained
	D	Non-metallic retainer (all ball bearing series)
	D	Single bearing, flush ground for duplex mtg
	DB	Pair of bearings, duplex mounted back to back
	DF	Pair of bearings, duplex mounted face to face
DS		Multirol needle bearing, double row, DSI type with outer race, solid lip type
DSI		Multirol needle bearing, double row, inner race and needle assy. Solid lip type
	DT	Pair of bearings, suitable for back to back, face to face or tandem duplex mtg
	E	Special seal in end plates
	F	Single shield
	F	Lubrication from flanged end of cam follower
	FF	Double shield
	FFG	Double shield with snap ring and groove on outer ring OD
	FG	Single shield, with snap ring and groove on side opposite shield
	FG-1	Single shield with snap ring and groove on same side as shield
FR		Multirol needle bearing, single row, replaced by RS series
FRD		Multirol needle bearing, double row, replaced by RD series
	FT	Full complement of needles or balls
	G	Snap ring and groove on outer ring OD
	GH	Snap ring with hook and groove on outer race OD
	GO	Snap ring groove only on outer ring OD
GR		Guiderol needle bearing, self-contained, outer race and center guided needle assembly, no inner race
GR	MI	Guiderol needle bearing, separable, outer race and center guided needle assembly, separable inner race
GRI		Complete CT series Guiderol needle bearing with separable inner race (metric sizes)

MFR. MC GILL MFG CO., INC. (Cont'd) CODE 39317

Prefix	Suffix	Definition
	H	Standard bearing with plus tolerance on the OD
	H	Lubrication from flanged end of cam follower
	HP	Hydraulic cast retainer
	HRH	High speed steel, heat resisting bearings
HRT		Aircraft type cam follower (high strength stud)
I		Inner race only for CT series Guiderol needle bearings
IR		Multirol needle bearing, single row, inner race and needle assy, end plate type
IRD		Multirol needle bearing, double row, inner race and needle assy, end plate type
	J	Pressed steel retainer (all ball bearing series)
	K	Machined bronze or brass retainer (all ball bearing series)
	KM	K-Monel metal
	LF	Loose fit
	LH	Left hand thread after CF cam followers of standard catalog item
M		McGill
	M	Maximum or loading groove type
MC		Ball bearing, single row, extended inner pillow block
MI		Multirol needle bearing, single row, inner race only
MO		Multirol needle bearing, single row, outer race and needle assy, solid lip type
MO	MI	Multirol needle bearing, single row, outer race and needle assy, separable inner race (solid lip type)
MT		Needle bearing series utilizing a center guided roller assembly
	N	Narrow
	NM	Narrow-maximum or loading groove type
	NS	Non-separable (self-contained)
OD		Multirol needle bearing, double row, outer race and needle assy, end plate type
OS		Multirol needle bearing, single row, outer race and needle assy, end plate type
OR		Needle bearing, outer race and needle assy, single row
ORD		Needle bearing, outer race and needle assy, double row
	P	Std bearing completely cadmium plated
	PC	Plastic land riding retainer
	PEN	Pentrate treated
	PRS	Piston ring seal
R		Retainer, solid, single row, centrifugal cast and turned
	R	Radially fitted Gurney type bearings, other than 7000 series
RD		Multirol needle bearing, self-contained, double row, outer race and needle assembly (end plate type), inner race
RP		Retainer, press formed
RS		Multirol needle bearing, self-contained, single row, outer race and needles assembly (end plate type) and inner race
	RS	Guiderol needle bearing, one seal (seal lips to outside of bearing)
	RSS	Guiderol needle bearing, two seals (seal lips to outside of bearing)
RT		Aircraft type cam follower

MFR. MC GILL MFG. CO., INC. (Cont'd) CODE 39317

Prefix	Suffix	Definition
S		Before ball bearing number indicates super-finish balls not micro-inspected
	S	Separable inner race Multirol needle bearing, also sealed on one side Guiderol needle bearing, (seal lips to inside of bearing)
SCF		Same as "CF" cam follower series except synthetic seals are added to outer race undercuts
SE		Special MO and related MI bearings (includes all solid lip bearings)
SK		Special, all other bearings except needle and ball bearings
SMO		Multirol needle bearing, single row, MO type with spher. OD
	SOL	"RS" dimensional MO bearings
	SOLW	"RS" bearing with MO construction and wide inner race
SR		Special RS-RD-OS-OD-IR-IRD bearings
	SRS	Guiderol needle bearing two seals (one seal facing inward, other seal facing outward)
	SS	Guiderol needle bearing, two seals (seal lips to inside of bearing)
ST		Special Guiderol needle bearings
STC		Guiderol needle type cam follower
	SW	Snap ring and end plate
	TB	Tapered bore
TW		Thinwall type, special Guiderol needle bearing
	U	Self-aligning thrust bearing
	W	Pressed steel retainer (all ball bearing series)
	W	Wide width
	X	Experimental
	Y	Pressed metal, non-ferrous retainer (all ball bearing series)
YR		Special CYR bearing
Z		Retainer, split retainer and needle assemblies
	0	After 7000 series bearing denotes no angle of contact
	1	After 7000 series bearings denotes 17 deg. angle of contact
	1	Etc., special features, but interchangeability with standard of same number
	2	After 7000 series bearing denotes 24 deg. angle of contact
	3	After 7000 series bearing denotes 37 deg. angle of contact

How to read MC GILL part numbers:

EXAMPLE:

211FG

211 FG

Basic bearing number
Single shield with snap ring and groove on side opposite shield

EXAMPLE:

RP212P

RP 212 P

Retainer, press formed
Basic bearing number
Std bearing completely cadmium plated

MFR. **MICROTECH CORP.** CODE **99940**

Prefix	Suffix	Definition
	A	MIL-L-6085A, lubricant
	A	.02 to .045 grams, quantity lubricant
	A	Torque test, mandrel
	A	Thrust torque test, .4/400 GC/C
	A	Radial play, 2-10
	B	P-10 lubricant
	B	Mist, quantity lubricant
	B	Torque test, Lear radial
	B	Thrust torque test .4/296 GC/C
	B	Radial play 4-6
	C	G-66 Norma, lubricant
	C	Package, quantity lubricant
	C	Composition retainer
	C	Torque test, Lear thrust
	C	Thrust torque test .3/100 GC/C
	C	Radial play 4-8
	D	Dry, lubricant
	D	2 drops, quantity lubricant
	D	Radial play 6-8
	D	Snap on beryllium retainer
	D	Thrust torque test .5/200 GC/C
	D	Torque test, Schwien thrust
	E	Andok "C" lubricant
	E	1/3 full, quantity lubricant
	E	2 piece beryllium retainer
	E	Thrust torque test, .7/200 GC/C
	F	MIL-G-3278, lubricant
	F	1 drop, quantity lubricant
	F	Spring beryllium retainer
	F	Thrust torque test 1.5/400 GC/C
	G	Dow Corning 200, lubricant
	G	Glass package
	G	Thrust torque test, 1.8/400 GC/C
	H	Thrust torque test, .35/80 GC/C
	J	Thrust torque test, .35/296 GC/C
	K	Thrust torque test, .7/80 GC/C
	N	Noise test
	N	Radial torque test, .036GC -0005 oz
	P	Plastic package

MFR. MICROTECH CORP. (Cont'd) CODE 99940

Prefix	Suffix	Definition
	P	2 piece stainless retainer
	P	Radial torque test, .072 - 0010 oz
	Q	Radial torque test, .144 - 0020 oz
	R	Snap stainless retainer
	R	Radial torque test, .216 - 0030 oz
	S	Spring stainless retainer
	S	Radial torque test, .288 - 0040 oz
	T	Teflon retainer
	T	Radial torque test, .360 - 0050 oz
	U	Radial torque test, .432 - 0060 oz
	V	Radial torque test, .720 - 0100 oz
	W	Radial torque test, .05GG - 35gm
	X	No requirements
	1	ABEC 5 tolerance
	1	Hand spin test
	1	Internal radial clearance test load 10 grams
	1	1 bearing per tube
	2	ABEC 7 tolerance
	2	Radial torque test
	2	Internal radial clearance test load 20 grams
	2	2 bearings per tube
	2	Radial play 2 max
	3	ABEC 9 tolerance
	3	Radial play 1-3
	3	Thrust torque test
	3	Internal radial clearance test load 40 grams
	3	5 bearings per tube
	4	ABEC 1 tolerance
	4	Radial play 2-4
	4	Motor test 3600 RPM
	4	10 bearings per tube
	4	Internal radial clearance test load 100 grams
	5	ABEC 3 tolerance
	5	Radial play 2-5
	5	Motor test 7200 RPM
	5	Internal radial clearance test load 150 grams
	5	20 bearings per tube
	6	Radial play 2-6
	6	Motor test 12,000 RPM

MFR. **MICROTECH CORP. (Cont'd)** CODE **99940**

Prefix	Suffix	Definition
	6	Internal radial clearance test load 200 grams
	6	25 bearings per tube
	7	Radial play 3-6
	7	Motor test 25,000 RPM
	7	Internal radial clearance test load 250 grams
	7	30 bearings per tube
	8	Radial play 2-8
	8	Internal radial clearance test load 300 grams
	9	Radial play 3-5
	9	Internal radial clearance test load 400 grams
	10	Special race curvature
	11	Selection of bore and OD tolerances, high bore, high OD
	12	Selection of bore and OD tolerances, high bore, low OD
	21	Selection of bore and OD tolerances, low bore, high OD
	22	Selection of bore and OD tolerances, low bore, low OD
	31	Selection of bore and OD tolerances, .0001 minus bore

How to read MICROTECH roller bearing numbers:

EXAMPLE:

MR4-1 5 A D 2 P N R A 1 B 1 N

(MR-4) Basic No.
(1) ABEC 5 tolerance
(5) Radial play 2-5
(A) Lubrication, MIL-L-6085A
(D) Quantity lubrication, 2 drops
(2) Radial torque test
(P) Plastic package
(N) Noise test
(R) Snap stainless retainer
(A) Thrust torque test requirement .4/400 GC/C
(1) Internal radial clearance test load, 10 grams
(B) Torque test unit, Lear radial
(1) 1 bearing per tube
(N) Radial torque test required: .036GC - 0005 oz

MFR. MINIATURE PRECISION BEARINGS — CODE 40920

Prefix	Suffix	Definition
	A	Angular contact, type with through hole
	AN	Angular contact type with closed end
	C	Radial retainer
	D1-1	Bore tolerance + .0000 − .0001 OD tolerance + .0000 − .0001
	D1-2	Bore tolerance + .0000 − .0001 OD tolerance − .0001 − .0002
	D2-1	Bore tolerance − .0001 − .0002 OD tolerance + .0000 − .0001
	D2-2	Bore tolerance − .0001 − .0002 OD tolerance − .0001 − .0002
	E	Extended inner race
	F	Flanged radial − full type
	FC	Flanged radial − retainer type
	G	Grooved od
	H	Single shield
	HH	Double shield
	K1	Radial clearance .0000 in. to .0002 in.
	K2	Radial clearance .0001 in. to .0003 in.
	K3	Radial clearance .0002 in. to .0004 in.
	K4	Radial clearance .0003 in. to .0005 in.
	K5	Radial clearance .0004 in. to .0007 in.
	K6	Radial clearance .0005 in. to .0008 in.
	K7	Radial clearance .0002 in. to .0008 in. Note: This is standard radial clearance furnished, unless specified
	LG-1	Esso Aviation General Purpose Grease 1 (MIL-L-7711)
	LG-10	Esso, Rust Ban 343 (AN-C-124A (3))
	LG-11	Shell Rust Preventative Compound 312(E) (AN-C-124A (3))
	LG-20	Esso, Beacon 325 Grease (MIL-G-3278)
	LG-21	Shell Oil Co. Aeroshell 11 (MIL-G-3278)
	LG-22	Texaco 1959 Unitemp TG-1224 (MIL-G-3278)
	LG-23	Keystone Lubricating Co. 87-H-X-LIGHT (MIL-G-3278)
	LG-30	Indiana Plastics Co., No. J942-6-562-40 (MIL-L-15793)
	LG-40	Dow Corning Corp., DC-33
	LO-1	Anderson Oil Co. Windsor Lube L-245X (MIL-L-6085A)
	LO-2	Lehigh Chemical Co. L-401D (MIL-L-6085A)
	LO-3	Aeroshell Fluid 12 (MIL-L-6085A)
	LO-4	Eclipse Pioneer Div. Bendix Aviation Corp. P-10 (MIL-L-6085A)
	LO-11	Esso Aviation Instrument Oil (MIL-L-7870A)
	LO-12	Texaco Low Temp. Oil (MIL-L-7870A)
	LO-13	Aeroshell Fluid 3(E) Low Temp. (MIL-L-7870A)

MFR. MINIATURE PRECISION BEARINGS (Cont'd) CODE 40920

Prefix	Suffix	Definition
	LO-14	Lehigh Chemical Co. L-281 (ORD 14-O-20)
	LO-15	Shell Oil Co. 365
	LO-16	Battenfield Grease and Oil Co. 818
	LO-20	Esso, Univis P-48 (MIL-L-6084)
	LO-30	Eclipse Pioneer Div. Bendix Aviation Corp. P-11 (MIL-L-6085 or MIL-C-5020)
	LO-40	Esso, 1193 (MIL-L-644)
	M	High speed angular contact type - separable
	ML	Linear motion type - separable
NM		Beryllium copper construction
	P	Pivot type (spherical seat)
	PR	Pivot type (with raceway)
	S	Spring type retainer
SS		Stainless steel construction
	T	Thrust type (with grooved raceway)
	TL	Thrust type (with flat raceway)
	U	Self-aligning type
Y		Special bearing (ordered with one or more non-cataloged dimensions)

How to read MINIATURE bearing numbers:

EXAMPLE:

SS5532FC

SS 5532 FC

Stainless Steel
Basic bearing number
Flanged radial retainer type

NOTE: First number indicates OD is 1/16 inch
Second number over next two numbers is bore size in inches
Exception: Pivot bearings are numbered with reference to their OD in MM

MFR. **MORTON BEARING CO.** CODE **83182**

Prefix	Suffix	Definition
L		Ball thrust bearing, flat race type, staggered balls, inch dimensions
LX		Ball thrust bearing, flat race type, staggered balls, inch dimensions
M		Ball thrust bearing, grooved race, light series, inch dimensions
P		Ball thrust bearing, grooved race, medium series, inch dimensions
RB		Roller thrust bearing, inch dimensions
S		Banded ball thrust bearing, grooved race, medium series, inch dimensions
SL		Banded ball thrust bearing, grooved race, light series, inch dimensions
WH		Ball thrust bearing, grooved race, double direction, flat seat, heavy series
WM		Ball thrust bearing, grooved race, double direction, flat seat, medium series

MFR. NEW DEPARTURE DIV. CODE 43334

Prefix	Suffix	Definition
A		Bearing with adapter sleeve
	A	Corrosion preventive compound. Standard slush
	A	Dimensional and/or internal deviation when suffixed to standard bearing number
	A	Bore variation, mine car bearing
	A	Double contact angle, flanged double row bearing
	A	Narrow width
	A1	A1 grade steel ball, commercial grade 1 tolerances
AG		Agricultural bearing
	AH	Lubricant—specification 51-F-23 (ORD)
	AK	Medium temperature grease—specification MIL-L-7711
	AR	AR grade steel ball—1/8 in. diameter to 1-1/8 in. diameter inclusive. Spherical within .0001 in. Medium fine finish
	AS	Lubricant—specification MIL-G-16908
	AX	Lubricant—specification MIL-G-10924
B		Box-type separator (retainer), angular contact bearing
	B	Special internal construction (followed by two digit number)
	B	Dimensional and/or internal deviation when suffixed to standard bearing number
	B	Instrument oil—specification 14-L-3
	B	Wide inner ring with key slot, angular contact bearing. (Available in ABEC-3 and ABEC-5 tolerances only)
	BB	Ball bearing oil—specification 14-L-3 Pioneer number 1
	BC	High temperature grease (MIL-L-3545)
	BH	Lubricant—Dow Corning EC200 fluid grade
	BM	Low temperature grease Aero Shell No. 11 (MIL-G-3278)
	BR	Lubricant—Keystone 89M
	BV	Lubricant—specification MIL-G-15793
	BW	Lubricant—specification MIL-G-644A superseded by MIL-L-7870
	BX	Lubricant—specification MIL-G-7421
	BZ	Lubricant—Dow Corning DC33 fluid grade
C		Metal slinger—type seal ("Crow" type seal)
	C	Special internal construction (followed by two digit number)
	C	Dimensional and/or internal deviation when suffixed to standard bearing number
	C	"Chevrolet" type snap ring. (Special snap ring having smaller OD than standard snap ring)
	C	Heat stabilized bearing. Inner and outer rings stabilized for 400 °F operating temperature Example: WD3L00CLR5336U
	C	High temperature sodium soap grease—Andok "C" (Substitute MIL-L-3545)
CB		Conveyor roll bearing. A special ball bearing permanently sealed and designed for use in conveyor roll assemblies, one end of bearing closed
CBR		Conveyor bearing roller
	CC	Bearing packed 25% full of Andok "C" grease

MFR. NEW DEPARTURE DIV. (Cont'd) CODE 43334

Prefix	Suffix	Definition
	CF	Bearing packed 100% full of Andok "C" grease
	CH	Oil—specification MIL-O-6085A. Superseded by MIL-L-6085
	CJ	Lubricant—specification MIL-G-7118
	CR	Lubricant—Dow Corning DC200-20
CT		Clutch throwout bearing
CWC		Metal slinger type seal and wide outer ring
D		Bearing with two seals of metal slinger and felt construction (rear wheel application)
	D	Brass separator
	D	Dimensional and/or internal deviation when suffixed to standard bearing number
	D	Low shoulder
	D	Outer ring controlled separator (retainer)
	DB	Duplex bearing, back to back mounting. A matched pair of angular contact bearings with adjacent outer and inner ring faces flush ground to preload requirements.
	DC	Inner ring controlled separator (retainer)
	DF	Duplex bearing, face to face mounting a matched pair of angular contact bearings with adjacent outer and inner ring faces flush ground to preload requirements
	DT	Duplex bearing, tandem mounting. A matched set of angular contact bearings with all bearing faces flush ground to preload requirements for universal mounting in tandem (DT), back to back (DB), or face to face (DF)
E		Special features
	E	Low temperature synthetic base grease conforming to specification MIL-G-3278
	E	Dimensional and/or internal deviation when suffixed to standard bearing number
	E	Special features
	E	Cork seal—on sealed bearing
	E3	Lubricant specification MIL-G-3278, 25 percent full
	EB	All surfaces of bearing coated with thin film of low temperature grease (MIL-G-3278)
	EL	Extra loose end play (superseded by "N")
EX		Experimental (may never have been produced)
F		Full complement of balls, retainerless type bearing, inch series
F		Flush type angular contact bearing designed to support primarily radial load
F		Extra duty, duplex type
	F	Bearing packed 100% full of specified grease
G		Special features
	G	Garlock seal—on sealed bearing
	G	Special features
	G2	Two Garlock seals fitted into same side of the bearing
H		Angular contact bearing, 25 degree angle of contact (20000 series)
H		Double row bearing wider than standard
H		Angular contact bearing, 60 degree angle of contact (HO202, HO203, HO206)
	H	Grease hole in inner ring (double row bearings)
	H	Low temperature synthetic grease conforming to specification MIL-G-3278 (obsolete as slush symbol)
J		Snap on inner ring (angular contact bearings)
	J	Slushing compound (superseded by "A")

MFR. NEW DEPARTURE DIV. (Cont'd) CODE 43334

Prefix	Suffix	Definition
	J	Special features
	J	Oil—specification MIL-L-6058A
	K	Anti-rotating key in seal (8000 series sealed bearings)
	K	General purpose, medium temperature water-resistant lithium soap grease
	K	Lubricant—Norma 66c
	L	Loose internal fit-up or axial play (end play)—radial type bearings
	L	Light preload (duplexed angular contact type bearings—follows suffixes DB, DF or DT)
	L	Lubricant—Dow Corning DC33 medium grade
	L1A	Loose internal fit-up (L), ABEC 1 tolerances (1), rust preventive slush (A)
	LR	Loose radial clearance (internal fit-up)
	LT	Low temperature water resistant lithium soap grease in solvent cleaned bearing. Beacon M285
	LTF5	(obsolete) Lime-tumbled finish on races
	M	Special aircraft finish
	MR	Medium radial clearance .0001 to .0004
M		Angular contact bearing, separable outer ring
N		Flanged outer ring
	N	Extra-loose end play (formerly EL)
	N	Rust preventive compound (slush) conforming to specification AN-C-124, Type II
	NBR	No preload requirement
	NBR11	Aero Shell—MIL-G-3278
ND		Magneto bearing (separable type)
NF		Flanged outer ring, flush type angular contact bearing designed to support primarily radial load
NM		Separable flanged outer ring, angular contact bearing
OE		Special box-type separator (retainer)
P		Protruding shield (shielded bearing)
	P1	Single boxed
	P1G	Bulk packing
	P2	Single wrapper
	P3	Packed in rolls
	P4	Single boxed
	P5	Single boxed
	P6	Packed in sets
	P7	Packed in vials
	P8	Packed in rolls
	P9	Aircraft packed
	P14	Packed in rolls
	P15	Single wrapped
	P16	Packed in vials

MFR. NEW DEPARTURE DIV. (Cont'd) CODE 43334

Prefix	Suffix	Definition
	P17	Packed in vials
	P18	Packed in pairs
	P21	Packed in rolls
	P22	Packed in rolls
	P23	Packed in rolls
	P24	Packed in rolls
	P25	Packed in vials
	P26	Packed in vials
	P27	Packed in vials
	P28	Packed in vials
	P29	Aircraft packed
	P30	Packed in sets
	P31	Packed in pairs
	P32	Single wrapped
	PX	PX grade steel ball—3/32 in. diameter to 11/16 in. diameter inclusive. Spherical within .00001 in. Fine finish
	PXR	PXR grade steel ball—1 mm diameter to 7/16 in. diameter inclusive. Spherical within .00001 in. Very fine finish.
Q		Non-metallic separator (retainer)
	Q	Iron silicone bronze outer ring controlled separator
R		Retainer type, inch series
R		Felt slinger type seal with re-lubrication holes
	R	Water-resistant lithium soap grease—Royco No. 6A
RS		Removable shield(s), shielded bearing
S		Coil spring separator (retainer)
	S	Special internal fit-up (radial bearing)
	S	Special preload, angular contact bearing
	S	Slinger (furnished with water pump bearing)
	SA	Internal self-aligning bearing
	SNR	Snap ring only
	SO	Outer ring with spherical OD (external self-aligning bearing)
SP		Special features
	SPX	SPX grade steel ball—5/32 in. diameter only. Spherical within .000005 in. Size variation per carton ± .000005 in.
SR		Stainless steel retainer
	SR	External self-aligning bearing, aligning ring fitted over spherical OD of outer ring
SS		Stainless steel bearing
	T	Tight internal fit-up (radial bearing)
	T	Heavy preload (angular contact bearing)
	T	Oil—Specification MIL-L-7711
TM		Textile bearing, miscellaneous
TP		Textile pulley bearing
TR		Textile roll bearing

MFR. NEW DEPARTURE DIV. (Cont'd) CODE 43334

Prefix	Suffix	Definition
TS		Textile spindle bearing
U		Single angular contact bearing duplex ground for universal mounting back to back, face to face or in tandem
V		Cast bronze machined separator (retainer)
	V	Snap ring located on shielded or sealed side of bearing (single shielded or single sealed bearing)
	W	Inwardly convergent contact angle (double row bearing)
	W	Oil—Specification MIL-L-6085A
	W1	Oil must spray - Specification MIL-L-6085A
WC		Wide outer ring on sealed bearing
WD		Separator (retainer), bronze-clad steel inner ring controlled
	WT	Superseded by suffix T3A
X		Freer seal fit-up (88000 series propeller shaft bearings)
	X	Standard end play or inter fit-up (radial type bearings)
	X	Medium preload (angular contact type bearings)
	X1A	Standard internal fit-up (X), ABEC 1 tolerances (1), rust preventive slush (A)
XD		Freer seal fit-up (88000 series propeller shaft bearings)
	XL	Superseded by suffix L1A
	XR	Standard internal fit-up (radial play)
Y		Low speed noise test (follows internal fit-up or preload symbol)
Z		Removable molded synthetic rubber seal
	ZA	.0000 - .0002 unloaded radial clearance
	ZB	.0001 - .0003 unloaded radial clearance
	ZC	.0002 - .0004 unloaded radial clearance
	ZD	.0003 - .0005 unloaded radial clearance
	ZE	.0004 - .0006 unloaded radial clearance
	ZF	.0005 - .0008 unloaded radial clearance
	ZH	.0008 - .0011 unloaded radial clearance
	ZL	Supersedes by suffix L1C
	#	No preload requirement (single angular contact bearing only, not used for duplex mounting)
	1	ABEC-1 tolerances
	3	ABEC-3 tolerances
4		Snap ring mounted on outer ring of bearing
	5	ABEC-5 tolerances
7		Single shielded bearing
8		Single sealed bearing (labyrinth type felt seal)
9		Single sealed bearing (synthetic rubber contact type seal)
	9	New Departure 9 tolerances (ultra-precision tolerances)
	9	Fingerprint remover process
77		Double shielded bearing
88		Double sealed bearing (labyrinth type felt seals)
99		Double sealed bearing (synthetic rubber contact type seals)

MFR.: NEW DEPARTURE DIV. (Cont'd) CODE 43334

Prefix	Suffix	Definition

How to read NEW DEPARTURE ball bearing numbers:

EXAMPLE:

3215X1C

3215 X 1 C

Basic bearing number
Standard end play
ABEC-1 tolerance
High temperature grease

EXAMPLE:

QH20209DBLY5A

Q H 20209 DB L Y 5 A

Nonmetallic separator
25 degree contact angle
Basic bearing number
Duplex mounting, back to back
Light preload
Low speed noise test
ABEC-5 tolerance
Rust preventive compound

EXAMPLE:

3202L1214 LT

3202 L 1 214 LT

Basic bearing number
Loose end play
ABEC-1 tolerance
Special specification
Low temperature grease

MFR. NEW HAMPSHIRE BALL BEARINGS, INC. CODE 83086

Prefix	Suffix	Definition
	A	ABEC 5 tolerances (obsolete)
	C	Change from standard dimensions
	D	Ribbon retainer (used only when both crown or ribbon available for a given size)
F		Flanged bearings
	G	Grooved outer ring
	H	With through-hole (pivot types)
	K	Radial play - followed by either two or three digits For example: K13 radial play of .0001 - .0003 K811 radial play of .0008 - .0011
	M	Metric dimensions
N		Beryllium copper
	P	One shield
	P1	Shield on flange side
	P2	Shield on side opposite flange
	PP	Two shields
R		Retainer radial
S		Stainless steel
	T	Plastic retainer
	UP	Narrow width - single shield only
	W	Low torque
	X	ABEC-7 tolerances
	Z	Spring separators
	11	Bore tolerance + .0000 - .0001 OD tolerance + .0000 - .0001
	12	Bore tolerance + .0000 - .0001 OD tolerance - .0001 - .0002
	21	Bore tolerance - .0001 - .0002 OD tolerance + .0000 - .0001
	22	Bore tolerance - .0001 - .0002 OD tolerance - .0001 - .0002

How to read NEW HAMPSHIRE ball bearing part numbers:

EXAMPLE:

SR1-4Z

S R 1-4 Z

Stainless steel
Retainer radial
Basic bearing number
Spring separator

MFR. NORMA-HOFFMANN BEARINGS CORP. CODE 43991

Prefix	Suffix	Definition
A		Stainless steel (A-500 series) Torque tube bearings
	A	Extra narrow ball bearing series, single row, radial, retainer type, metric series
	A	Railway type, similar to "E" type but with railway clearance RY-400-A (roller bearings)
	AC	Ball bearing, single row, angular contact type, counterbored, retainer type
AN		Standard locknuts
B		Torque tube series of 52100 steel (ball bearings), single row, radial, retainerless
B		Magneto type ball bearings
	BB	Pair of bearings, duplex mounted back to back (ball bearings)
BE		Magneto type ball bearings
	B1	ABEC-1 tolerance
	B3	ABEC-3 tolerance (precision)
	B5	ABEC-5 tolerance (super precision)
C		Extra light ball bearing series, single row, radial, metric type
C	P	Extra light ball bearing series, single row, radial, one shield, metric type
C	PP	Extra light ball bearing series, single row, radial, two shields, metric type
	CD	Ball bearing, single row, angular contact, split outer ring, separable, retainer type
	CL	Conrad "Litro" two piece composition retainer (ball bearing)
	CP	Cadmium plated bearing
	CS	Cork seal used in 7000 and 77000 series (ball bearing)
D		Airframe ball bearing, double row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, heavy duty series
	D	Single metal labyrinth seal (9000 series)
D	H	Airframe ball bearing, double row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, extra heavy duty series
	DD	Double metal labyrinth seals (9000 series)
DF		Airframe ball bearing, double row, radial, inner ring extends both sides, two felt contact seals, retainerless, exposed surfaces cadmium plated, heavy duty series
DL		Ball thrust bearing, single row, single direction grooved race surface, rigid, metric extra light series
DM		Ball thrust bearing, single row, single direction grooved race surface, rigid, metric medium series
DS		Airframe ball bearing, double row, internal self-aligning, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, heavy duty series
E		Magneto series, open type (ball bearing)
	EC	Double row, self-aligning, with extended inner ring (ball bearing)
EGS		Ball bearing, single row, radial, self-contained, one face of both rings flush, outer ring extends one side, one seal, retainer type
	ELF	Extra loose fit (ball bearings)
	ETF	Extra tight fit (ball bearings)

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
EW		Ball thrust bearing, single row, single direction, flat race surface, rigid, extra light inch type
F	P	Rocker arm bearing, retainerless, two shields
	FF	Pair of ball bearings, duplex mounted face to face
	FL	Felt washers with 7000 series
	FT	Retainerless type ball bearing
	G66	General purpose lubricant (govt Spec AXS-637)
	G75a	Low temperature grease (govt Spec MIL-G-3278)
	G90	High temperature grease (govt Spec 14-L-3c)
	G99	High temperature silicone grease (govt Spec MIL-L-15719)
	GE	Special beveled or corner for general electric mine motor replacements (ball and roller bearings)
GS		Obsolete grease seal series - use 7000 series
H		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with seating ring and housing, heavy inch series
	H	Extra heavy, aircraft control (ball bearings)
	HAC	Angular contact AC series over 100 m/m bore size
HD		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has larger OD than other washers, heavy inch series
HDR		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has smaller ID and OD than other washers, heavy inch series
HMC		Double row, self-aligning (old designation)
HR		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning without seating ring, heavy inch series
HW		Ball thrust bearing, single row, single direction, grooved race surface, rigid, heavy inch series
HX		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has larger OD than other washers, sleeve on ID, heavy inch series
HZ		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with aligning ring, heavy inch series
	IF	Interference fit (ball bearing)
	Inst.	Instrument fit (ball bearing)
	J	Indicates grease plug in cartridge type bearings
	JW	Obsolete cartridge type bearing designation
K		Airframe ball bearing, single row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, heavy duty series
	K	Single synthetic contact seal (ball bearing)
K	A	Airframe ball bearing, single row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, medium duty series
K	B	Airframe ball bearing, single row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, extra light duty series

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
K	H	Airframe ball bearing, single row, radial, inner ring extends both sides, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated, extra heavy duty series
KF		Airframe ball bearing, single row, radial, inner ring extends both sides, two felt contact seals, retainerless, exposed surfaces cadmium plated heavy duty series
KF	A	Airframe ball bearing, single row, radial inner ring extends both sides, two felt contact seals, retainerless, exposed surfaces cadmium plating, medium duty series
KF	H	Airframe ball bearing, single row, radial, inner ring extends both sides, two felt contact seals, retainerless, exposed surfaces cadmium plated, heavy duty series
	KK	Two synthetic contact seals (ball bearing)
KP	A	Airframe ball bearing, single row, radial, two synthetic contact seals, retainerless exposed surfaces cadmium plated
KR		Airframe roller bearing, single row, two lip inner ring, cylindrical outer ring, two stainless steel or cadmium plated shields, retainerless, exposed surfaces cadmium plated
KS		Airframe ball bearing, single row, self-aligning, retainerless, two stainless steel or cadmium plated shields, exposed surfaces cadmium plated, heavy duty series
KSF		Airframe ball bearing, single row, internal self-aligning, inner ring extends both sides, two felt-contact seals, retainerless, exposed surfaces cadmium plated, heavy duty series
L		Magneto type ball bearing
	L	Non-metallic retainer (ball bearing)
	L-245-X	Instrument oil (govt Spec MIL-L-6085)
	L281	Instrument oil (govt Spec 14-O-20)
	LF	Loose fit (ball bearing)
L	N	Ball bearing, (narrow width, metric type series), single row, radial, retainer type, light series
LM		Ball thrust bearing, single row single direction, grooved race surface, rigid, metric light series
LR		Cylindrical roller bearing, single row, two lip inner ring, one lip outer ring with one retainment ring, retainerless type
LS		Light series ball bearing, single row, radial, retainer type, inch series
LSN		Ball bearing, single row, external self-aligning with aligning ring, retainer type
LSW		Ball bearing, single row, external self-aligning with aligning ring, swiveling side plates, collars and locknut obsolete
	LT	Low temperature grease (govt Spec MIL-G-3278)
LTN		Ball bearing, single row, external self-aligning with aligning ring, retainer type, tapered bore with adapter sleeve, nut and washer, light series
LTW		Ball bearing, single row, external self-aligning with aligning ring, two swiveling side plates, tapered bore with adapter sleeve, nut and washer, light series
M		Magneto type ball bearing - large sizes
M		Single direction thrust bearing, self-aligning, with seating ring and housing, single row, grooved race surface, medium inch series
M	N	Ball bearing, (narrow width, metric type) single row, radial, retainer type, medium series
MD		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has larger OD than other washers, medium inch series
MDR		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has smaller ID and OD than other washers, medium inch type

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
	MF	Medium fit (ball bearing)
	MO	Sound tested for electric motor use
MR		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning without seating ring, medium inch series
MS		Medium series ball bearing, single row, radial, retainer type, inch series
MSN		Ball bearing, single row, external self-aligning with aligning ring, retainer type, medium series
MSW		Ball bearing, single row, external self-aligning with aligning ring (obsolete)
MT		Ball bearing, single row, radial, loading groove type (obsolete)
MTN		Ball bearing, single row, external self-aligning with aligning ring, retainer type, tapered bore with adapter sleeve, nut and washer, medium series
MTW		Ball bearing, single row, external self-aligning with aligning ring, two swiveling side plates, tapered bore with adapter sleeve, nut and washer, medium series
MW		Ball thrust bearing, single row, single direction, grooved race surface, rigid, medium inch series
MX		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center-washer has larger OD than other washers, sleeve on ID, medium inch series
MZ		Ball thrust bearing, single row, single direction, grooved race surface, self-aligning with seating ring, medium inch series
N		Standard locknut series
	N	Single synthetic contact seal (ball bearing)
	NN	Two synthetic contact seals (ball bearing)
NR		Needle roller bearing
	NW	Ball bearing, double row, angular contact, loading groove, vertex of contact angle meets outside (new width)
OGS		Ball bearing, single row, radial, self-contained one face of both rings flush, outer ring extends one side, one seal, retainer type
	OIL	Instrument oil
	OW	Ball bearing, double row, angular contact, loading groove, vertex of contact angle meets outside (old width)
	P	Single shield (ball bearing)
	PL	Parko luberized outside diameter
	PP	Double shields (ball bearing)
PR		Piston ring seal used in cartridge type ball bearings
R		Extra light ball bearing series, single row, radial, retainer type, inch series
R		Cylindrical roller bearing, single row two lip inner ring, cylindrical outer ring, non-locating, separable, metric series
	R	Retainer in "S" series (ball bearing)
R	B	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating, separable, retainerless
R	E	Cylindrical roller bearing, single row, cylindrical inner ring, two lip outer ring, non-locating, separable, metric series
R	L	Cylindrical roller bearing, single row, two lip inner ring, one lip outer ring, one direction locating, separable, metric series

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
R	LL	Cylindrical roller bearing, single row, two lip inner ring, two lip outer ring, two direction locating self-contained, metric series
R	LR	Roller, full type, single lipped outer ring with retaining ring, two lip inner ring
R	N	Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, metric series
R	P	Extra light ball bearing series, single row, radial, retainer type, one shield, inch series
R	PP	Extra light ball bearing series, single row, radial, retainer type, two shields, inch series
R	RR	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring with two roller retainment rings, retainerless, non-locating, self-contained
	RC	Radial clearance, preceded by two digits separated by a dash (e.g., 3-6RC)
RLS		Light series cylindrical roller bearing, two lip inner ring, cylindrical outer ring, non-locating, separable, inch series
RLS	B	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating, separable, retainerless, light inch series
RLS	E	Cylindrical roller bearing, single row, two lip outer ring, cylindrical inner ring, retainer type, non-locating, separable, light series
RLS	L	Light series cylindrical roller bearing, two lip inner ring, one lip outer ring, one direction locating, separable, inch series
RLS	LL	Cylindrical roller bearing, single row, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, light series
RLS	RR	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring with 2 retainment rings, non-locating, self-contained, retainerless, light inch series
RLSN		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, light inch series
RLSW		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, retainer type, two swiveling side plates, collars and nut light inch series
RLT		Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating separable, tapered bore, with adapter, nut and washer, light series
RLTN		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, tapered bore with adapter sleeve, nut and washer, light inch series
RLTW		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, retainer type, swiveling side plates, tapered bore with adapter sleeve, nut and washer, light inch type
RMS		Medium series cylindrical roller bearing, two lip inner ring, cylindrical outer ring, non-locating, separable, inch series
RMS	B	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating, separable, retainerless, medium inch series
RMS	E	Cylindrical roller bearing, single row, two lip outer ring, cylindrical inner ring, retainer type, non-locating, separable, medium series
RMS	L	Medium series cylindrical roller bearing, two lip inner ring, one lip outer ring, one direction locating separable, inch series
RMS	LL	Cylindrical roller bearing, single row, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, medium series

MFR. **NORMA-HOFFMANN BEARINGS CORP. (Cont'd)** CODE 43991

Prefix	Suffix	Definition
RMS	RR	Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring with 2 retainment rings, non-locating, self-contained retainerless, medium inch series
RMSN		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, medium metric series
RMSW		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer retainer type, swiveling side plates, collars and nut, medium inch series
RMT		Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating, separable, tapered bore, with adapter, nut and washer, medium series
RMTN		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, two direction locating, self-contained, retainer type, tapered bore with adapter sleeve, nut and washer, medium inch series
RMTW		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, two lip outer ring, retainer type, swiveling side plates, tapered bore with adapter sleeve, nut and washer, medium inch series
RXLS		Extra light cylindrical roller bearing series, two lip inner ring, cylindrical outer ring, non-locating, separable, inch series
RY		Cylindrical roller bearing series,(railway type)
	RY	Railway motor roller bearing fit (greater than standard)
RY	A	Cylindrical roller bearing, (railway type), single row, cylindrical inner ring, two lip outer ring, non-locating, separable, metric type
RY	B	Cylindrical roller bearing, (railway type), single row, two lip inner ring with one lip separable and extended, two lip outer ring, one direction locating, separable, metric series
RY	P	Cylindrical roller bearing, (railway type), single row, one lip inner ring, two lip outer ring, one direction locating, separable, metric series
	R4	Stainless steel construction, (ball and roller bearings)
	R11	Stainless steel construction, (ball and roller bearings)
S		Preceding "3500" & "3600" cartridge type ball bearing, single row, radial, two seals, retainer type, without grease plug
S		Extra light, full type, inch dimensions
	S	(Followed by 3 digits) special specification covering selected and/or other characteristics
S	R	Extra light ball bearing series, single row, radial, retainer type, inch series
S	R-P	Extra light ball bearing series, single row, radial, retainer type, one shield, inch series
S	R-PP	Extra light ball bearing series, single row, radial, retainer type, two shields, inch series
	SEL	Special selected (ball and roller bearings)
	SB	Solid bronze retainer (ball and roller bearings)
	SF	Pressed bronze retainer (ball bearing)
SP		Special
	ST	Pressed steel retainer (ball bearing)
	STB	Heat stabilized bearings for high temperature operation
	SY	Machined brass retainer (ball and roller bearings)
SX		Extra light seal type (old designation)
	TF	Standard fit (ball bearing)

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
	TG1819	High temperature grease (Govt Spec MIL-L-3545)
U		Ball bearing, double row, internal self-aligning, retainer type, light series
U	W	Ball bearing, (extra wide, metric type) double row, internal self-aligning, self-contained, retainer type
UT	A or E	Ball bearing, double row, internal self-aligning, self-contained, retainer type, tapered bore with adapter sleeve, nut and washer
	V	Spring retainer (ball bearing)
W		Standard lockwashers
W		Ball thrust bearing, single row, single direction, grooved race surface, rigid, light inch type
WD		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has larger OD than other washers, light inch series
	WIR	Wide inner ring type ball bearing
WIR	L	Cylindrical roller bearing, single row, two lip inner ring, one lip outer ring, one direction locating, separable, retainer type, wide inner ring
WR		Ball thrust bearing, double row, double direction, grooved race surface, rigid, center washer has smaller ID and OD than other washers, light inch type
WS		Ball thrust bearing, double row, double direction, grooved race surface, center washer has OD larger than other washers, sleeve on ID, light inch series
WSP		Single direction self-aligning thrust bearing, single row, grooved race surface, without seating ring, light inch type
WZ		Single direction self-aligning thrust bearing, single row, grooved race surface, with seating ring
X		X-1 to X-199 first group of special ball, roller and thrust bearings
XA		Airframe ball bearing, single row, radial, inner ring extends both sides, two felt contact seals, retainerless, exposed surfaces cadmium plated, light duty series
XA		XA-1 to XA-199 second group of special ball, roller and thrust bearings
XB		XB-1 to XB-199 third group of special ball, roller and thrust bearings
XF		XF-1 to XF-199 fourth group of special ball, roller and thrust bearings
XLS		Extra light ball bearing series, single row, radial, retainer type, inch series
XW		Ball thrust bearing, single row, single direction, grooved race surface, rigid, inch series
	1H	Standard clearance
	2H	Medium clearance (looser than standard)
4		Preceding standard 200 and 300, 3500 or 3600 ball bearing series, single row, radial, snap ring and groove, metric type
4	P	Ball bearing series, single row, radial, one shield, snap ring and groove on side opposite shield, metric type
4	PP	Ball bearing series, single row, radial two shields, snap ring and groove, metric type
6		Ball bearing "6000" series, single row, radial, one seal, retainer type, metric series
6	P	Ball bearing "6000" series, single row, radial, one seal, one shield, retainer type, metric series
7		Ball bearing "7000" series, single row, radial, one seal, retainer type, metric series

MFR. NORMA-HOFFMANN BEARINGS CORP. (Cont'd) CODE 43991

Prefix	Suffix	Definition
7	P	Ball bearing "7000" series, single row, radial, one seal, one shield, retainer type, metric series
77		Ball bearing "7700" series, single row, radial,two seals, retainer type, metric series

How to read NORMA-HOFFMAN ball bearing numbers:

EXAMPLE:

303PPTFG66

303 PP TF G66

Basic bearing number
Double shields
Standard fit
Medium temperature grease

How to read NORMA-HOFFMAN roller bearing numbers:

EXAMPLE:

R330SB-B5

R 330 SB - B5

Roller bearing
Basic bearing number
Solid bronze retainer
ABEC-5 tolerance (super precision)

MFR. **NICE BALL BEARING CO.** CODE **43766**

Prefix	Suffix	Definition
C		Ground single row radial annular ball bearing, non-loading groove, with retainer
	DC	Two synthetic contact seals
	DH	Extended inner ring with drilled hole
	DL	Two seals
	DLG	Two seals, snap ring and groove on OD of outer ring
	DS	Two shields
	DSZ	Extended inner ring with zerk grease fitting
F		Flange mounted self-aligning radial bearing, labyrinth composition sealed, two locking setscrews
FR		Ground ball thrust bearing, flat races, retainer type
	NC	One shield and one synthetic contact seal
	NH	No hole in band on one side of bearing
	NS	No shields
	SC	One synthetic contact seal (1600-3000 series)
	SC	Extended inner ring with slot (unground bearing) (400 series type special feature)
	SS	One shield (1600-3000, and C series)
	SS	Extended inner ring tapped for setscrew (400 series type special feature)
	1DS	Dust sealed on one side
	1DSF	Dust sealed on one side with felt
	2DS	Dust sealed on both sides

How to read NICE ball bearing numbers:

EXAMPLE:

1601DS

1601 DS

Basic bearing number
Two shields

MFR. OMEGA BALL BEARING CO. CODE 99821

Prefix	Suffix	Definition
	A	Radial, one piece outer ring
	AC	Angular contact, one piece outer ring
	ACF	Flanged angular contact, one piece outer ring
	B	Double row, radial, one piece outer ring
	BZ	Bronze
	D	Double row (two or more piece outer ring)
	DC	Double row, radial, two piece inner ring, one piece outer ring
	DS	Double row, stud type, one piece outer ring
	F	Flanged, radial, two piece outer ring
	G	Grooved outer ring
	H	Hex bore
	K	Radial, one piece outer ring
	KF	Radial, flanged, one piece outer ring
	KS	Radial, stud type, one piece outer ring
	P	Single seal
	PP	Double seal
	R	Radial, two piece outer ring
	S	Setscrew
	SS	Stainless steel
	T	Thrust bearing
	TX	Pivot bearing
	V	Sheave
	XI	Metric Measurements

How to read OMEGA ball bearing numbers:

EXAMPLE:

22RSSP

22 R SS P

Outside dia in thirty-seconds of an inch
Radial type, two piece outer ring
Stainless steel
Single seal

MFR. ORANGE ROLLER BEARING CO., INC. CODE 45014

Prefix	Suffix	Definition
	CT	Needle roller bearing without inner race—retainer type (cage type)
D		Journal roller bearing twice as wide as those identified by the prefix "W"—staggered rollers
E		Needle roller bearing complete with inner race—full complement of rollers
E	CT	Needle roller bearing complete with inner race—retainer type (cage type)
JR		Journal bearing roller assembly only (without inner and outer races)—solid in-line rollers
JRC		Journal roller bearing without inner race—solid in-line rollers
JRCS		Journal roller bearing complete with inner and outer races—solid in-line rollers
M		Journal roller bearing wider than standard bearing—staggered rollers
W		Journal roller bearing wider than standard bearing—staggered rollers

MFR. **ROLLER BEARING CO. OF AMERICA** CODE **51588**

Prefix	Suffix	Definition
A		Roller assemblies— special
B		Special section bars for BU type bearing
B		Bars for barrel type bearing (9000 series)
B		Locating washers— 20th century type bearings
B		Locating washers— special bearing
BU		Built up cage type bearing with U shaped inner race
C		Combination of roller assembly and outer race
CD		Combination of two roller assemblies and outer race
CF		Cam follower
CM		Combination of roller assembly and outer race (motor series)
CMW		Combination of roller assembly and outer race (motor series-wide)
CSD		Combination of two roller assemblies and outer race (special)
CSW		Combination of roller assembly and outer race (wide series— special)
CW		Combination of roller assembly and outer race (wide series)
	CY	Cyclops type bearing
D		Dual roller assembly type bearing with solid IR and OR
DIR		Solid inner race— double width
DOR		Solid outer race— double width
	DR	Double row type aircraft bearing
E		Combination of roller assembly and solid inner race
E		20th century bearing with solid inner race
E		Cyclops bearing with solid inner race
EJ		Cyclops bearing with solid inner race
ER		End ring
ER-L		End ring— left hand
ER-R		End ring— right hand
F		Cam follower
G		Special parts
H		Retainer for automotive type bearing
H		Heat treated split outer races
HP		Heat treated split outer race type bearing
HPA		Heat treated heavy split outer race type bearing
IA		Combination of roller assembly and solid inner race (special)
IR		Solid inner race
IR-BU		Two lip inner ring
IR-R		Solid inner ring— one lipped
IR-U		Two lip solid inner ring
IR-UX		Two lip inner ring— special bore
J		Cyclops type bearing (7000 series)

MFR. **ROLLER BEARING CO. OF AMERICA (Cont'd)** CODE **51588**

Prefix	Suffix	Definition
	K	Keystone or full complement roller type
KR		Key roller, cyclops type
M		Combination of roller assembly, solid outer and inner race (motor type)
M		Cyclops type bearing with M/M bore inner race (6000-8000-9500)
MIR		Solid inner race
MJ		Cyclops type bearing with M/M bore inner race (7000 series)
MOR		Solid outer race
MRA		Roller assembly
MW		Combination of roller assembly, solid outer and solid inner race (wide type)
MWIR		Solid inner race (wide type)
MWRA		Roller assembly (wide type)
N		Combination of roller assemblies, solid outer, and inner races (narrow type)
NC		Combination of roller assembly and solid outer race (narrow type)
NIR		Solid inner race (narrow type)
NOR		Solid outer race (narrow type)
NRA		Roller assembly (narrow type)
NW		Washers—neoprene
OA		Combination of roller assembly and outer race (special)
OIA		Combination of roller assembly and outer and inner race (special)
OR		Solid outer race
ORA		Adapter for outer race
ORF		Cam roll outer race
P		Combination of roller assembly and split outer race
PA		Combination of roller assembly and heavy split outer race
PF		Plug for cam roller stud
	PS	Carburized inner race, aircraft type bearing
R		Solid roller
	R	Aircraft track roller bearing
RA		Roller assembly
RL		Roller for barrel type bearing (trunnion type)
RW		Retainer washers
RWF		Retainer washers (cam followers)
S		Combination of roller assembly. Solid outer and solid inner races (special)
	SA	Self-aligning type aircraft bearing
SC		Combination of roller assembly and solid outer race (special)
SD		Combination of roller assembly, solid outer and solid inner races (special dual roller assembly type)
SDIR		Solid inner race (special)
SDOR		Solid outer race (special)

MFR. ROLLER BEARING CO. OF AMERICA (Cont'd) CODE 51588

Prefix	Suffix	Definition
SIR		Solid inner race (special)
SK		Special parts
SOR		Solid outer races (special)
SR		Snap rings (cyclops)
SRA		Roller assembly (special)
STF		Stud (cam roller)
SW		Combination of roller assembly, solid outer and solid inner races (special wide type)
SWIR		Solid inner race (special wide type)
SWOR		Solid outer race (special wide type)
SWRA		Roller assembly (special wide type)
T		Combination of roller assembly, solid outer and notched inner race
	T	Automotive type bearing—two retaining washers in outer race
	TA	Automotive type bearing—two retaining washers in wide outer race
	TAM	Automotive type bearing—two retaining washers in wide outer race. Full complement rollers
	TAS	Automotive type bearing—two retaining washers in wide outer race. Cage or separator type
	TM	Automotive type bearing—two retaining washers in outer race. Full complement rollers
TMW		Combination of roller assembly—solid outer and notched inner race
	TS	Automotive type bearing—two retaining washers in outer race. Cage or separator type
TW		Combination of roller assembly, solid outer and notched inner race
TX		Combination of roller assembly—solid outer and notched inner race
TXW		Combination of roller assembly—solid outer and notched inner race
TYW		Combination of roller assembly—solid outer and notched inner race
U		Combination of roller assembly—solid outer and two lip inner ring
UX		Combination of roller assembly—solid outer and two lipped inner ring (special bore)
W		Combination of roller assembly—solid outer and solid inner race (wide series)
WRA		Roller assembly (wide series)
	YM	Automotive type bearing—one retaining washer and one solid lipped outer race. Full complement rollers
	YS	Automotive type bearing—one retaining washer and one solid lipped outer race—cage or separator type
	Z	Straight cylindrical solid outer race for the BU type bearing
	ZA	Straight cylindrical wide solid outer race for the BU type bearing

NOTE: Following suffixes used to denote deviations from standard

1A	Outer race, OD larger than standard
1AA	Outer race, OD selected to high limit
1AH	Outer race, plus tolerance on outside diameter and no oil hole
1B	Outer race, OD smaller than standard

MFR. **ROLLER BEARING CO. OF AMERICA (Cont'd)** CODE **51588**

Prefix	Suffix	Definition
	1BB	Outer race, OD selected to low limit
	1C	Outer race, ID larger than standard
	1CC	Outer race, ID selected to high limit
	1D	Outer race, ID smaller than standard
	IDD	Outer race, ID selected to low limit
	1E	Outer race, width greater than standard
	1EE	Outer race, crowned raceway
	1F	Outer race, width less than standard
	1G	Outer race, special OD corner radii
	1H	Outer race, oil hole added
	1J	Outer race, oil groove added
	1K	Outer race, notched
	1L	Outer race, with locating hole
	1M	Outer race, snap ring groove added
	1N	Outer race, snap ring groove with snap ring included
	1P	Outer race, special material
	1R	Outer race, plated
	1S	Outer race, crowned OD
	1T	Outer race, oil hole omitted
	1U	Outer race, oil groove omitted
	1V	Outer race, Granadize (Parker-Lubrize) ID
	1W	Outer race, slot both ends (AB and B types)
	1X	Outer race, location of spherical ID radius specification (OR-12051-Z)
	1Y	Outer race, raceway longer than standard
	1Z	Outer race, track contact selected (on tract rollers)
	1SS	Outer race, seals added
	2A	Inner race, OD larger than standard
	2AA	Inner race, OD selected to high limit
	2B	Inner race, OD smaller than standard
	2BB	Inner race, OD selected to low limit
	2C	Inner race, ID larger than standard
	2CC	Inner race, ID selected to high limit
	2D	Inner race, ID smaller than standard
	2DD	Inner race, ID selected to low limit
	2E	Inner race, width greater than standard
	2F	Inner race, width less than standard
	2G	Inner race, special ID corner radii
	2H	Inner race, oil hole added
	2J	Inner race, oil groove added

MFR. **ROLLER BEARING CO. OF AMERICA (Cont'd)** CODE **51588**

Prefix	Suffix	Definition
	2K	Inner race, notched
	2L	Inner race, with locating hole
	2P	Inner race, special material
	2R	Inner race, plated
	2S	Inner race, crowned OD
	2T	Inner race, oil hole omitted
	2U	Inner race, oil groove omitted
	2V	Inner race, Granadized (Parker-Lubrized) ID
	2W	Inner race, bore selected to closer tolerances than standard
	3A	Roller assembly, roller diameter larger than standard
	3B	Roller assembly, roller diameter smaller than standard
	3C	Roller assembly, roller length greater than standard
	3D	Roller assembly, roller length less than standard
	3E	Roller assembly, material other than standard
	3F	Roller assembly, bar diameter larger than standard
	3G	Roller assembly, bar diameter smaller than standard
	3H	Roller assembly, bar length greater than standard
	3J	Roller assembly, bar length less than standard
	3K	Roller assembly, length greater than standard
	3L	Roller assembly, length less than standard
	3M	Roller assembly, bar shank longer than standard
	3N	Roller assembly, end ground rollers
	3P	Roller assembly, bars cyanided
	3R	Roller assembly, bar shank diameter smaller than standard
	3S	Roller assembly, roller hardness other than standard
	3T	Roller assembly, roller trunnion diameter larger than standard
	3U	Roller assembly, roller trunnion diameter smaller than standard
	4A	Internal clearance, diametral clearance greater than standard
	4B	Internal clearance, diametral clearance less than standard
	4C	Internal clearance, circumferential clearance greater than standard
	4D	Internal clearance, circumferential clearance less than standard
	4E	Internal clearance, axial clearance greater than standard
	4F	Internal clearance, axial clearance less than standard
	5A	Deviation in runout
	5B	Deviation in eccentricity
	5C	Deviation in taper (squareness of OD)
	6A	Lubricant code, Lo Temp Grease—MIL-G-3278
	6B	Lubricant code, Ball Bearing Lubriplate (GE No. GED50-H1E)
	6C	Lubricant code, Union Oil Z815 (Bendix-Lockheed)

MFR. **ROLLER BEARING CO. OF AMERICA (Cont'd)** CODE **51588**

Prefix	Suffix	Definition
	6D	Lubricant code, An-G-15 (MIL-L-7711)
	6E	Lubricant code, Atlantic 62 (GE No. D50-H15)
	6F	Lubricant code, Dow Corning DC-33 Silicone Base Grease (Glenn L. Martin)
	6G	Lubricant code, MIL-G-7421 (Extreme low temperature grease)
	7A	Both ends cadmium plated
	7B	Cadmium plated all over
	7C	Copper plated OD
	7D	Copper plated ID
	7E	Copper plated all over
	7F	Chrome plated OD
	7G	Chrome plated ID
	7H	Chrome plated all over
	7J	Chrome plate OD, all other exposed surfaces cadmium plated (Track rollers—AB and B series)
	7K	Cadmium plated ends and slot only, no plating on OD (Track rollers AB and B series)
	7L	Outer and inner race electro-filmed all over (Track rollers AB and B series)
	8A	Roller stud longer than standard
	8B	Roller stud shorter than standard
	8C	Special roller stud thread
	8D	Roller stud material other than standard
	8E	Roller stud, notch or flat for set screw
	8F	Roller stud, special drilling
	9A	Hardness end caps
	9B	Complete bearing length greater than standard
	9C	Complete bearing length less than standard
	9D	Ultimate design
	9E	Roller diameter variation .0001 in.
	9F	Crowned roller (ends .0002 in. smaller than center)
	9G	Outer race ID selected to control clearance
	9H	Hole drilled through entire bearing (AB and B series)
	9J	Plating omitted on outer and inner race
	9K	Rollers harder than standard
	9L	Split bearing (SJ type)
	9M	Outer race ID and inner race ID coated with MoS_2 (Molycote)
	9N	Both outer and inner races magnafluxed
	9P	Complete bearing of material other than standard

MFR. ROLLER BEARING CO. OF AMERICA (Cont'd) CODE 51588

Prefix	Suffix	Definition
	9R	Pentrate outer race and rollers, chrome plate retainer (cage)
	9S	Retainer (cage) type aircraft bearing (40NBC), ultimate design
	9T	Outer race and rollers softer than standard
	9U	Cadmium plated ends only
	9V	Parker-Lubrized friction surfaces
	9Z	Bearings used in pairs, matched for variation

How to read RBC roller bearing numbers:

EXAMPLE:

EJ73046A7A

EJ 7304 6A 7A

Cyclops bearing with solid inner race
Basic bearing number
MIL-G-3278 grease
Both ends cadmium plated

MFR. ROLLWAY BEARING CO., INC. CODE 51600

Prefix	Suffix	Definition
A		Roller assembly with split outer race, no inner race
	A	Class of internal radial clearance
AT		Roller thrust bearing, single row, single direction, flat race surface, self-aligning with seating ring, retainer type
B		Roller assembly with hardened and ground outer race, no inner race
BE		Separator cage roller assemblies, self-contained in the outer race, with completely separable inner races
CS		Cylindrical roller bearing, single row, cylindrical inner ring, cylindrical outer ring, non-locating, separable, retainer type
CS-7		Cylindrical roller bearing, double row, cylindrical inner ring, cylindrical outer ring, non-locating, separable, retainer type
CT		Roller thrust bearing, single row, single direction, flat race surface, rigid, retainer type, outer sleeve
D		Complete bearing assembly with hardened and ground inner and outer race
DAT		Roller thrust bearing, double row, double direction, flat race surface, self-aligning with two seating rings, center washer has a smaller ID and OD than other washers, inner sleeve rests on center washer OD
DT		Roller thrust bearing, double row, double direction, flat race surface, rigid, retainer type, center washer has a smaller OD and ID than other washers, inner sleeve rests on OD of center washer
LL		Cylindrical roller bearing, single row, one lip inner ring, one lip outer ring, non-locating, separable, retainer type
MACS		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, cylindrical outer ring, non-locating, separable, retainer type
MAS		Cylindrical roller bearing, single row, external self-aligning with aligning ring, two lip inner ring, cylindrical outer ring with 2 retainment rings, non-locating, self-contained, retainer type
MCS		Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring, non-locating, separable, retainer type
MCS-5		Cylindrical roller bearing, single row, double width, external self-aligning with aligning ring, two lip inner ring, cylindrical outer ring, non-locating, separable, retainer type
ML		Cylindrical roller bearing, single row, two lip inner ring, one lip outer ring, one direction locating, separable, retainer type
MLC		Cylindrical roller bearing, single row, cylindrical inner ring, one lip outer ring, non-locating, separable, retainer type
MN		Cylindrical roller bearing, single row, two lip inner ring, two lip outer ring with one lip separable, one direction locating, separable, retainer type
MNL		Cylindrical roller bearing, single row, one lip inner ring, two lip outer ring with one lip separable, non-locating, separable, retainer type
MO		Cylindrical roller bearing, single row, cylindrical inner ring, two lip outer ring with one lip separable, non-locating, separable, retainer type
MS		Cylindrical roller bearing, single row, two lip inner ring, cylindrical outer ring with 2 retainment rings, non-locating, self-contained, retainer type
MS-5		Cylindrical roller bearing, single row, double width, external self-aligning with aligning ring, two lip inner ring, cylindrical outer ring with 2 retainment rings, non-locating, self-contained, retainer type

MFR. ROLLWAY BEARING CO., INC. (Cont'd) CODE 51600

Prefix	Suffix	Definition
MU		Cylindrical roller bearing, single row, two lip inner ring with one lip separable, two lip outer ring, one direction locating, separable, retainer type
MUC		Cylindrical roller bearing, single row, cylindrical inner ring, two lip outer ring, non-locating, separable, retainer type
MUL		Cylindrical roller bearing, single row, one lip inner ring, two lip outer ring, one direction locating, separable, retainer type
PA		Roller assembly with heavy duty planished outer race, no inner race
SDT		Roller thrust bearing, single row, simplified double-acting, flat race surface, rigid, retainer type, inner and outer sleeves
T		Roller thrust bearing, single row, single direction, flat race surface, rigid, retainer type
	1	Bearing flash tin plated except the cage, depth of .00002 to .00004

MFR. **SCHATZ MFG. CO.** CODE **53268**

Prefix	Suffix	Definition
AA		Unground single row ball bearing, close bore and OD tolerances
ADX		Unground ball bearing, extended inner ring
	AHR	Unground, heavy duty outer ring type ball bearing
	AR	Unground ball bearing, extra heavy duty outer ring
ARX		Unground single row ball bearing, outer member of outer ring made of extra heavy steel plate and cyanide hardened, inner ring extended one side.
ARXX		Unground single row ball bearing, outer member of outer ring made of extra heavy steel plate and cyanide hardened, inner ring extended both sides
	BHR	Single row ball bearing, ground surfaces, heavy duty outer ring
CE		Cable end bearing, aircraft type
CS		"Commercial" bearing
	DP	Dustproof type bearing
K		Precision aircraft control bearing, AN200 specification
K	A	Precision aircraft control bearing, AN201 specification
STR		Double row double shielded aircraft bearing unit consisting of two flanged single row ball bearings mounted in an aluminum housing

How to read SCHATZ ball bearings numbers:

EXAMPLE:

1240DP

1240 DP

Basic bearing number
Dustproof type bearing

MFR. **SHAFER BEARING CORP.** CODE **77896**

Prefix	Suffix	Definition
A		Double row aircraft bearing, concavex rollers, self-aligning, two synthetic contact seals
A		Pillow block series designation (obsolete)
	A	Sleeve type adapter for tapered bore bearing
AB		Double row aircraft bearing, concavex rollers, self-aligning, two synthetic contact seals (formerly provided with two shields)
AD		Double row aircraft bearing, concavex rollers, self-aligning, two shields
AE		Double row aircraft bearing, concavex rollers, self-aligning, two shields (obsolete series superseded by AB series)
AEF		Double row aircraft bearing, concavex rollers, self-aligning, two felt contact seals
AN		Locknut designation
A	PL	Pillow block designation (obsolete)
A	PR	Pillow block designation (obsolete)
AR		Aircraft rod end bearing, single row, concavex rollers, self-aligning, two synthetic contact seals, female shank, medium duty series
ARA		Same as AR
ARE		Aircraft rod end bearing, single row, concavex rollers, self-aligning, two shields, female shank (obsolete series replaced by AR)
ASF		Single row aircraft bearing, concavex rollers, self-aligning, two felt seals (obsolete)
ATE		Aircraft rod end bearing, single row, concavex rollers, self-aligning, two shields, male shank (obsolete series replaced by ST series)
A	ZP	Direct mounted self-aligning roller bearing pillow block, fixed type, open end, double row concavex roller bearing, furnished with auxiliary cap seal unit
A	ZPS	Direct mounted self-aligning roller bearing pillow block, floating (expansion) type, open end, double row concavex roller bearing, furnished with auxiliary cap seal unit
B		Single row aircraft bearing, concavex rollers, self-aligning, two synthetic contact seals.
B		Flange unit designation (obsolete)
BE		Single row aircraft bearing, concavex rollers, self-aligning, two shields (obsolete series replaced by B series)
B	PL	Pillow block designation (obsolete)
B	PR	Pillow block designation (obsolete)
BR		Flange cartridge unit designation (obsolete)
B	ZP	Direct mounted self-aligning roller bearing pillow block, fixed type, closed end, double row concavex roller bearing, furnished with auxiliary cap seal unit
B	ZPS	Direct mounted self-aligning roller bearing pillow block, floating (expansion) type, closed end, double row concavex roller bearing, furnished with auxiliary cap seal unit
C		Double row aircraft bearing, concavex rollers, self-aligning, two synthetic contact seals
C		Take-up unit designation (obsolete)
	C	Milled slot in the shank of rod end
	C	Drilled lockwire hole in shank of rod end
	C	Closed end, ball bearing unit
	D	Double row radial thrust concavex roller bearing
DA		Duplex unit designation (obsolete)
DE		Double row concavex roller bearing, self-aligning, non-separable

MFR. **SHAFER BEARING CORP. (Cont'd)** CODE **77896**

Prefix	Suffix	Definition
DE	T	Double row self-aligning concavex roller bearing, tapered bore
DL		Duplex unit designation (obsolete)
DR		Duplex unit designation (obsolete)
DT		Double row aircraft bearing, concavex rollers, self-aligning, two synthetic contact seals (torque tube type bearing)
E		Duplex unit designation (obsolete)
	E	Double row bearing with one piece outer ring (cup)
	F	Four bolt hole construction, pillow block
FA		Flange unit designation (obsolete)
FC		Outboard flange unit designation (obsolete)
FR		Aircraft rod end bearing single row, concavex rollers, self-aligning, two synthetic contact seals, heavy duty series, female shank
FRE		Aircraft rod end bearing single row, concavex rollers, self-aligning, two shields, female shank (obsolete series replaced by FR series)
FS		Flange housing unit designation (obsolete)
	G	Lubricating fitting, rod end bearing
	H	Collar on housing side of unit
	H	Double row bearing equipped with steel retainers and Teflon seals and lubricated with MIL-G-3278 grease
	H	Single row bearing equipped with Teflon seals and lubricated with MIL-G-3278 grease
L		Cartridge unit designation (obsolete)
	L	Left hand threads, shank, rod end bearing
	M	Double row bearing, spacer preadjusted
MA		Cartridge unit designation (obsolete)
ML		Cartridge unit designation (obsolete)
MR		Aircraft rod end bearing, single row, self-aligning, concavex rollers, two synthetic contact seals, male shank, heavy duty series
MRE		Aircraft rod end bearing, single row, concavex rollers, self-aligning, two shields (obsolete series replaced by MR series)
MS		Cartridge unit designation (obsolete)
MW		Cartridge unit designation (obsolete)
N		Locknut designation
	N	Special slotting of threaded shank, rod end bearing
	P	Contact seals
	P	Precision bore units
PA		Pillow block designation (obsolete)
PAC		Pedestal type pillow block
PAF		Pedestal type pillow block
PL		Pillow block designation (obsolete)
PR		Pillow block designation (obsolete)
	R	Reduced radial thrust

MFR. **SHAFER BEARING CORP. (Cont'd)** CODE **77896**

Prefix	Suffix	Definition
	R	Single row bearings, matched, rigid
S		3″ diameter conveyor rolls series
	S	Single row radial thrust concavex roller bearing
SC		2-1/4″ diameter conveyor rolls series
SD		4″ diameter conveyor rolls series
SE		5″ diameter conveyor rolls series
SF		6″ diameter conveyor rolls series
ST		Aircraft rod end bearing, single row, self-aligning, concavex rollers, two synthetic contact seals, male shank, medium duty series
	T	Tapered bore
TL		Take-up unit designation (obsolete)
TR		Take-up unit designation (obsolete)
W		Lockwasher designation
	W	Milled slot to accept NAS-513 lockwasher
XC	A	Split type pillow block, adapter mounting, double row concavex roller bearing, tapered bore
ZA		Direct mounted self-aligning roller bearing pillow block, double row concavex roller bearing
ZB		Direct mounted self-aligning roller bearing flange housing unit, double row concavex roller bearing
ZBR		Direct mounted self-aligning roller bearing flange cartridge unit, double row concavex roller bearing
ZC		Direct mounted self-aligning roller bearing take-up unit, double row concavex roller bearing
ZD		Double row concavex roller bearing with collars and piston ring seals, two bolt covers, and set of shims, furnished as a duplex unit
ZE		Double row concavex roller bearing with collars and piston ring seals, two bolt covers, and set of shims, furnished as a duplex unit
ZF		Direct mounted self-aligning roller bearing flange housing unit, double row concavex roller bearing
ZF		Dumb-bell hanger box unit designation (obsolete)
ZL		Direct mounted self-aligning roller bearing cartridge unit, double row concavex rollers
ZM		Concavex roller bearing cartridge unit, large OD
ZMW		Concavex roller bearing cartridge unit
ZMX		Concavex roller bearing cartridge unit, expansion type, with slot
ZN		Hanger box designation
ZNT		Concavex roller bearing take-up and frame unit
ZP		Direct mounted self-aligning roller bearing pillow block, double row concavex roller bearing, fixed type
ZPA		Adapter mounted self-aligning roller bearing pillow block, double row concavex roller bearing, fixed type
ZPB		Adapter mounted self-aligning roller bearing pillow block, expansion (floating) type, double row concavex roller bearing

MFR. **SHAFER BEARING CORP. (Cont'd)** CODE **77896**

Prefix	Suffix	Definition
ZPS		Direct mounted self-aligning roller bearing pillow block, expansion (floating) type
ZST		Concavex roller bearing take-up and frame unit
ZT		Direct mounted self-aligning roller bearing take-up unit, double row concavex roller bearing

How to read SHAFER bearing numbers:

EXAMPLE:

MR-5L

MR 5 L

Rod end male shank
Basic bearing number
Left-hand thread

MFR. **SKF INDUSTRIES, INC.** CODE **52676**

Prefix	Suffix	Definition
A		American Standard thread on adapter sleeve
	A	Adapter type, self-aligning
	A	Internal redesign
	A	Complete Parco-Lubrize or dulite coating
	A	30° contact angle for angular contact bearings
AN		Locknut designation
ASK		Adapter sleeve
	B	Internal redesign
	B	40° contact angle for angular contact bearings
	B	Pressed brass or bronze retainer (obsolete) (see Y)
	BD	Flush ground for back to back mounting only (obsolete)
	BJ	Bored steel cage (obsolete, replaced by F)
	C	Internal redesign
	C	15° contact angle for angular contact bearings
	C	Inner race land-riding cage when used with cage designations TC
	C1	Extra tight fit, radial clearance less than C2
	C2	Tight internal fit, radial clearance less than standard
	C3	Loose internal fit, radial clearance greater than standard
	C4	Extra loose internal fit, radial clearance greater than C3
	C5	Extra, extra loose internal fit, radial clearance greater than C4
	C6	Extra quiet running standard bearing, noise tested
	C7	Extra smooth running bearing obtained by special production methods
	C8	Stoning of inner and outer ring corners. Thorough inspection for surface appearance
	C9	Improved finishing and inspection of inner and outer rings
	C40	Reduced OD tolerance on high side
	C50	Reduced OD tolerance on low side
	C78	Super precision, ABEC 5 and standard internal clearance, also C781, C782, C783, C784 with corresponding C1, C2, C3, C4, C5 internal clearance respectively
	C150	(Old P) precision. Approximately ABEC 3, use standard bearing
	C151	(Old PC) precision, reduced internal clearance. Approximately ABEC 3, use standard bearing with C2 clearance
	C152	(Old PE) precision, reduced internal clearance. Approximately ABEC 3, use standard bearing with C2 clearance
	C170	(Old P) precision. Approximately ABEC 5, replaced by C78
	C171	(Old PC) precision, reduced internal clearance, Approximately ABEC 5, replaced by C782
	C172	(Old PE) precision, reduced internal clearance. Approximately ABEC 5, replaced by C782
	C180	Close tolerance
	C481	Super precision. ABEC 5 tolerance (when used for bearing with tapered bore) C1 internal clearance
	C780	Super precision, replaced by C78

MFR. **SKF INDUSTRIES, INC. (Cont'd)** CODE **52676**

Prefix	Suffix	Definition
	C782	ABEC 5 tolerance, tight internal fit ABEC 5
	C783	ABEC 5 tolerance, loose internal fitup
	C997	Super-precision, ABEC 7 tolerances and C7 extra smooth running
	C4817	Super-precision, ABEC 5 tolerances C1 internal clearance, C7 extra smooth running
	C99177	Super-precision, ABEC 7 tolerances C1 internal clearance, C77 extra smooth running
	CL3	Bore, OD and eccentricity tolerances equal to ABEC 3, all other tolerances equal to ABEC 1
	CO1	Inner ring with close running accuracy and standard internal clearance. Also CO11, CO12, CO13, CO14, CO15 with corresponding C1, C2, C3, C4, C5 internal clearance respectively
	CO2	Inner ring with extra close running accuracy and standard internal clearances. Also CO21, CO22, CO23, CO24, CO25 with corresponding C1, C2, C3, C4, C5 internal clearance respectively
	CO5	Thrust bearing close running accuracy
	CO8	Thrust bearing extra close running accuracy
	CO10	Inner race with close running accuracy (obsolete use CO1)
	CO13	Inner race with close running accuracy and loose internal fit
	CO21	Inner race with extra close running accuracy and extra tight internal fit
	COO1	Extra tight internal fit (obsolete use C1)
	COO2	Tight internal fit (obsolete superseded by C2)
	COO3	Loose internal fit (obsolete use C3)
	COO4	Extra, extra loose internal fit (obsolete), use C5
	COO5	Extra quiet running standard bearing, replaced by C6
	COO6	Noise tested COO2 bearing (obsolete replaced by COO27)
	COO7	Noise tested COO3 bearing (obsolete replaced by COO37)
	COO34	Extra loose internal fit (obsolete) superseded by C4
	D	Matched and boxed in pairs for duplex mounting
	D	Flush ground for back to back mounting only and wired together in pairs (obsolete)
	D	Dural retainer (replaced by L)
	DO	Non-interchangeable fit for cylindrical roller bearings, reduced noise test level on noise tested bearings
E		Magneto type bearings
EE		Extra small inch dimension bearings
ER		Triple seal ring, pillow block
ES		Rubber mounted bearing replacement unit
	F	Loose internal fit, replaced by C3
	F	Machined steel retainer (obsolete)
	FC	Machined steel retainer, inner ring centered (obsolete)
FL		Felt seal bearing (obsolete)
FLB		Felt seal bearing, extra wide outer ring (obsolete)
	FS	Machined steel retainer, outer ring centered

MFR. SKF INDUSTRIES, INC. (Cont'd) CODE 52676

Prefix	Suffix	Definition
FUA		Adapter mounted ball bearing flange housing unit, double row internal self-aligning bearing, both rings same width and flush
FUAR		Adapter mounted spherical roller flange housing unit, double row self-aligning bearing
FUS		Direct mounted ball bearing flange housing unit, double row internal self-aligning bearing, inner ring extended both sides
	G	Flush ground side surfaces for duplex mounting. Also with numerals to denote preload GO2-20lb preload GO5-50lb preload G1-100lb preload G5-500lb preload
	H	Pressed steel snap retainer
	HC	Pressed steel snap retainer, inner ring centered
	HT1	Lubricant code, S-58 (obsolete), replaced by HT2
	HT2	Lubricant code, Andok C (Std Oil of N.J.) grease
	HT3	Lubricant code, Royco E532 (Royco #5) grease
	HT4	Lubricant code, M-24 grease
	HT5	Lubricant code, S-59 grease
	HT6	Lubricant code, SC-4410 (Std Oil of Indiana) grease, (obsolete)
	HT7	Lubricant code, Dow Corning DC-33 (light) replaced by LHT1
	HT8	Lubricant code, Dow Corning DC-44 (light) grease, replaced by LHT2
	HT9	Lubricant code, Texas Company TG-1819 (MIL-L-3545) grease
	HT10	Lubricant code, Cal-Oloht grease
I		Denotes special bearing (obsolete)
	J	Pressed steel retainer (cage)
	JC	Pressed steel retainer (cage), inner ring centered
	K	Tapered bore bearing, 1:12 taper on diameter
	L	Dural retainer (cage)
	LC	Dural retainer (cage), inner ring centered
	LHT1	Lubricant code, Dow Corning DC-33 (light) grease
	LHT2	Lubricant code, Dow Corning DC-44 (light) grease
	LHT3	Lubricant code, Templube #79 grease (Nat. Engr., Prod. Inc.)
	LHT4	Lubricant code, Keystone 89M Silicone grease
	LO1	Lubricant code, Univis P-48 oil
	LO2	Lubricant code, WS-429 oil
	LO3	Lubricant code, Pioneer #10 oil
	LO4	Lubricant code, Silicone #9981-LT-9- R1 (lot DP3-5) oil
	LO5	Lubricant code, Esso 1193 Preservative Oil (MIL-L-644)
	LO6	Lubricant Code, Univis P-38 oil
	LO7	Lubricant code, Aero-Shell No. 12 oil
	LO8	Lubricant code, Shell L-191 oil
	LPC	Dural retainer (cage) with broached pockets, inner ring centered, for roller bearings
	LPS	Dural retainer (cage) with broached pockets, outer ring centered, for roller bearings

MFR. **SKF INDUSTRIES, INC. (Cont'd)** CODE **52676**

Prefix	Suffix	Definition
	LS	Dural retainer (cage), outer ring centered
	LT1	Lubricant code, Beacon M-285 (AN-G-3) grease
	LT2	Lubricant code, Royco 6A grease
	LT3	Lubricant code, Norma 66C grease
	LT4	Lubricant code, Texaco RCX-146-100 grease
	LT5	Lubricant code, Royco 631 grease
	LT6	Lubricant code, Royco 94 grease
	LT7	Lubricant code, WS465 grease
	LT8	Lubricant code, Royco 100 grease
	LT9	Lubricant code, Texaco Unitemp TG1224 (MIL-G-3278) grease
	LT10	Lubricant code, Beacon M-325 (MIL-G-3278) grease
	LT11	Lubricant code, Esso 5413 grease
	LT12	Lubricant code, Naval Ordnance 14-G-8 grease
	LT13	Lubricant code, Texaco 1957 (AN-G-10) grease
	LT14	Lubricant code, Socony Milvac 10924 (MIL-G-10924) grease
	LT15	Lubricant code, Midco Instrument Grease #287
	M	Machined bronze retainer (cage)
	MC	Machined bronze retainer (cage), inner ring centered
	MO1	Lubricant code, regular slushing oil #470038, replaced by LO2
	MO2	Lubricant code, Houghton's light clock and chronometer oil
	MO3	Lubricant code, Nye oil
	MO4	Lubricant code, Pioneer No. 1 oil
	MO5	Lubricant code, 470038 diluted with Afco solvent (one part oil to fifteen parts solvent)
	MO6	Lubricant code, Univis J-58 oil
	MO7	Lubricant code, Thixcotropic Oil 832-20 (Wilson & Brower)
	MPC	Machined bronze retainer (cage) with broached pockets, inner ring centered, for roller bearings
	MPS	Machined bronze retainer (cage) with broached pockets, outer ring centered, for roller bearings
	MS	Machined bronze retainer (cage), outer ring centered
	MT1	Standard slush 470039
	MT2	Lubricant code, F-925 (obsolete, replaced by MT9) grease
	MT3	Lubricant code, Royco 7 grease
	MT4	Lubricant code, M-31 grease
	MT5	Lubricant code, M-6 grease
	MT6	Lubricant code, A-29 special grease
	MT7	Lubricant code, S-57 grease
	MT8	Lubricant code, Gulf Supreme No. O grease
	MT9	Lubricant code, Andok B (Std Oil of N.J.) grease
	MT10	Lubricant code, W-56 (N.Y. and N.J.) grease
	MT11	Lubricant code, Texaco Regal Starfax Special (AN-G-15) grease

MFR. **SKF INDUSTRIES, INC. (Cont'd)** CODE **52676**

Prefix	Suffix	Definition
	MT12	Lubricant code, Lubriplate Ball Bearing Grease
	MT13	E.F. Houghton and Co., Cosmoline No. 333 (AN-C-124) slushing compound
	MT14	Lubricant code, Esso Aviation General Purpose No. 1 (MIL-L-7711) grease
	MT15	Lubricant code, Mobil Grease Aero General Purpose (MIL-L-7711) grease
	MT16	Lubricant code, Ferro-coat oil #354
	MT17	Lubricant code, Socony Vacuum Grease BRB Lifetime grease
	MT18	Lubricant code, Unoba Light Grease
	MT19	Lubricant code, Shell Alvania No. 2 grease
	MT20	Lubricant code, Andok BR (Standard Oil of N.J.) grease
	MT21	Lubricant code, Shell Cyprina #3 grease
N		Locknut designation
	N	Snap ring groove (without ring)
NN		Double row cylindrical roller bearings, two lip inner ring, cylindrical outer ring
N		Cylindrical roller bearing, two lip inner ring, cylindrical outer ring
NF		Cylindrical roller bearing, two lip inner ring, one lip outer ring
NFL		Cylindrical roller bearing, light series, replaced by NF200 (see NF)
NFM		Cylindrical roller bearing, medium series, replaced by NF300 (see NF)
NFS		Cylindrical roller bearing, heavy series, replaced by NF400 (see NF)
NH		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable
NJ		Cylindrical roller bearing, two lip outer ring, one lip inner ring
NJL		Cylindrical roller bearing two lip outer ring, one lip inner ring, light series, replaced by NJ200 (see NJ)
NJM		Cylindrical roller bearing, two lip outer ring, one lip inner ring, medium series, replaced by NJ300 (see NJ)
NJS		Cylindrical roller bearing, two lip outer ring, one lip inner ring, heavy series, replaced by NJ400 (see NJ)
NL		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, light series, replaced by N200 (see N)
NM		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, medium series, replaced by N300 (see N)
NP		Cylindrical roller bearing, two lip inner ring, two lip outer ring, one outer ring lip separable
	NR	Snap ring and groove on outer ring
NS		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring, heavy series, replaced by N400 (see N)
NU		Cylindrical roller bearing, two lip outer ring, cylindrical inner ring
NUJ		Cylindrical roller bearing, two lip outer ring, one separable lip on inner ring
NUL		Cylindrical roller bearing, two lip outer ring, light series, replaced by NU200 (see NU)
NUM		Cylindrical roller bearing, two lip outer ring, medium series, replaced by NU300 (see NU)
NUP		Cylindrical roller bearing, two lip outer ring, two lip inner ring, one lip of inner ring separable
NUS		Cylindrical roller bearing, two lip outer ring, heavy series, replaced by NU400 (see NU)
	P	Super-precision, approximately ABEC 5 (replaced by C78)

MFR. **SKF INDUSTRIES, INC. (Cont'd)** CODE **52676**

Prefix	Suffix	Definition
	PC	Super-precision, reduced internal clearance, approximately ABEC 5 (replaced by C781)
	PE	Super-precision, reduced internal clearance, approximately ABEC 5 (replaced by C782)
R		Extra small bearings
	R	New SAE width on double row deep groove bearings
	RC	Special internal radial clearance (followed by figures indicating amount of radial clearance in microns, e.g. RC200 to 300)
RN		Cylindrical roller bearing, two lip inner ring, no outer ring
RNU		Cylindrical roller bearing, two lip outer ring, no inner ring
	RS	Red seal on one side (synthetic contact type) (formerly felt contact type)
	2RS	Red seals on both sides (synthetic contact type) (formerly felt contact type)
	RSNR/B	Red seal and snap ring on same side (synthetic contact type seal, formerly felt)
S		Denotes special bearings
SAF		Direct mounted ball bearing pillow block, double row internal self-aligning bearing (SAF 1300 series)
SAF22		Direct mounted spherical roller bearing pillow block, self-aligning bearing (SAF 22200, 22300 series)
SAF	A	Adapter mounted double row ball bearing pillow block, internal self-aligning bearing
SDAF		Direct mounted, spherical roller bearing pillow block, self-aligning bearing
SDAF	A	Adapter mounted spherical roller bearing pillow block
SES		Rubber mounted ball bearing pillow block
SK		Adapter sleeve
SNW		Adapter sleeve, locknut, and lockwasher
SR		Stabilizing ring, held pillow block bearing
SUA		Adapter mounted ball bearing pillow block double row internal self-aligning bearing, both rings same width and flush
SUAR		Adapter mounted spherical roller bearing pillow block, double row self-aligning bearing
SUS		Direct mounted ball bearing pillow block, double row internal self-aligning bearing, inner ring extended both sides
SY		Direct mounted ball bearing pillow block, single row external self-aligning bearing
	T	Non-metallic (phenolic) retainer (cage)
	TC	Non-metallic retainer (cage), inner ring centered
	TS	Non-metallic retainer (cage), outer ring centered
	U	Narrow series (100 U series)
	U	Aligning washer for thrust bearing
W		Lockwasher designation
	W1	Bearing meeting special requirements on low starting torque
	W2	Bearing meeting special torque requirements
	W3	Bearing marked to show measured accuracy
	W4	Inner ring or sleeve marked to show high point of eccentricity
	W5	Bearing marked with customer part number
	W6	Special marking on bearings

KF INDUSTRIES, INC. (Cont'd) CODE 52676

Suffix	Definition
W10	Bearing with Dulited surfaces
W11	Bearing with Parco-Lubrized surfaces
W12	Bearings with raceways and rolling elements Dulited, all other surfaces Parco-Lubrized
W13	Bearing with Parco-Lubrized bore and OD
W14	Bearings with Parco-Lubrized bore and OD, all other surfaces of rings and rolling elements Dulited
W15	Bearings with Dulited surfaces except lands which support a land-riding retainer
W16	Bearing with OD of outer ring Parco-Lubrized, inner ring Parco-Lubrized all over
W17	Bearing of seal or shield type with all parts Dulited except the seal or shield which is tin coated
W18	Bearing with a specific surface or surfaces which are Dulited
W20	Oil holes in outer ring of spherical roller bearing
W21	Flush ground bearings with inner and outer rings of equal width, and close cross corner tolerances
W22	Bearing with C10 OD tolerance for outer ring and standard tolerances for inner ring
W23	Special features for traction motor bearings
W24	Special tolerances for seal or shield location on capped bearings
W25	Special width tolerance for spherical roller bearing outer rings
W26	Oil holes in inner ring of spherical roller bearings
W27	SY pillow block with a special collar
W28	Special noise test requirements
W29	Cylindrical roller bearing with special radial looseness and interchangeability
W30	Bearing with all steel parts tin plated
W40	Bearing with silver plated retainer
W41	Bearing with silver and lead plated retainer
W42	Bearing with silver and lead indium plated retainer
W215	W21 bearings with addition of W5 features
W216	W21 bearings with addition of W6 features
X	International Standard dimensions
	Self-aligning, extended inner ring (obsolete)
Y	Pressed brass or bronze retainer (cage)
YC	Pressed brass or bronze retainer (cage), inner ring centered
Z	Shield on one side
2Z	Shields on both sides

MFR. SKF INDUSTRIES, INC. (Cont'd) CODE 52676

How to read SKF INDUSTRIES ball bearing numbers:

EXAMPLE:

6002X2ZFHT2

6002X 2Z F HT2

Basic bearing number
Shield on both sides
Machined steel retainer
Andok C grease

EXAMPLE:

6208A2RSYC2LT9

6208 A 2RS Y C2 LT9

Basic bearing number
Internal redesign
Red seals on both sides
Brass or bronze cage
Tight internal fit
Texaco unitemp TG1224 (MIL-G-3278)

E SMITH BEARING CO. CODE 83132

Suffix	Definition
	Cam follower, needle roller bearing
DR	Needle roller bearing, double row (NAS-503 series)
HD	Needle roller bearing, single row (NAS-502 series)
S	Needle roller bearing (NAS-505 series)
SA	Needle roller bearing (NAS-504 series)
SAD	Needle roller bearing (NAS-504 series)

MFR. SPLIT BALL BEARING CORP. CODE 78118

Prefix	Suffix	Definition
BSF		Annular ball bearing, single row, radial, retainerless, both rings split in two places (cross-sectionally), held together by 4 screws, heavy duty series
BSR		Annular ball bearing, single row, radial, retainer type, both rings split in two places (cross-sectionally), held together by 4 screws, heavy duty series
DRC		Annular ball bearing, double row, radial, retainerless, 2 shields, split outer ring (cross-sectionally), precision ground to close tolerances
DRF		Annular ball bearing, double row, radial, retainerless, 2 shields, split outer ring (cross-sectionally), non-precision tolerances
HDF		Annular ball bearing, single row, radial, retainerless, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders, metric sizes, tolerances held to ABEC Stds.
HDR		Annular ball bearing, single row, radial, retainer type, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders, metric sizes, tolerances held to ABEC Stds.
PBF		Bearing unit, ball, pillow block, housing acts as outer ring, retainerless type, split inner ring held together by 2 screws
PBR		Bearing unit, ball, pillow block, housing acts as outer ring, retainer type, split inner ring held together by 2 screws
	P	Precision tolerances
RSF		Cylindrical roller bearing, single row, two lip outer ring, two lip inner ring, retainerless, both rings split in two places (cross-sectionally) held together by 4 screws, heavy duty series
RSR		Cylindrical roller bearing, single row, two lip outer ring, two lip inner ring, retainer type, both rings split in two places (cross-sectionally) held together by 4 screws, heavy duty series
SRC		Annular ball bearing, single row, radial, retainerless, 2 shields, split outer ring (cross-sectionally), precision ground to close tolerances
	S	Standard tolerances
TCA		Torque tube bearing design and dimension series, single row, radial inner ring extends both sides, retainerless, using alternate balls of plus and minus tolerances, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders
TCF		Torque tube bearing design and dimension series, single row, radial, inner ring extends both sides, retainerless, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders
TCR		Torque tube bearing design and dimension series, single row, radial, inner ring extends both sides, retainer type, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders
TWA		Torque tube bearing design and dimension series, single row, radial, inner ring extends both sides, two integral shields formed by extending the lands of the outer ring, retainerless, using alternate balls of plus and minus tolerances, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders
TWF		Torque tube bearing design and dimension series, single row, radial, inner ring extends both sides, two integral shields formed by extending the lands of the outer ring, retainerless, split outer ring (cross-sectionally) held together by two retainment rings on OD shoulders
	U	Ultra-precision

AFR. STEPHENS-ADAMSON MFG. CO. CODE 57448

Prefix	Suffix	Definition
EMP		Medium duty ball bearing pillow block unit - expansion type
ER		Style "A" extended inner ring ball bearing (furnished with snap ring on outer ring)
	D	Double lock ball bearing (two set screws in inner ring)
HB		Countershaft hanger ball bearing unit
MFC		Medium duty ball bearing, flange cartridge unit
MFP		Medium duty ball bearing pillow block unit - four-bolt-base
MFPD		Medium duty double lock ball bearing pillow block unit - four-bolt base
MP		Medium duty ball bearing pillow block unit
MSC		Medium duty ball bearing cartridge unit
MSF		Medium duty ball bearing flange unit
MSFPD		Medium standard duty double lock ball bearing pillow block unit - four-bolt base
MSPD		Medium standard duty double lock ball bearing pillow block unit
MST		Medium duty ball bearing take-up unit
NP		Normal duty ball bearing pillow block unit
NPD		Normal duty double lock ball bearing pillow block unit
NPG		Normal duty style "G" ball bearing protected screw take-up units
RB		Extended inner ring ball bearing furnished with rubber mounted units
S	M	Normal duty ball bearing pillow block unit (shorter base to bore centerline dimension)
SC		Standard duty ball bearing cartridge unit
SCHB		Hanger ball bearing unit for screw conveyors
SEHB		Hanger ball bearing unit for eccentric drives
SF		Standard duty ball bearing flange unit
SK		Extended inner ring ball bearing (one set screw in inner ring)
SP		Standard duty ball bearing pillow block unit
SPD		Standard duty double lock ball bearing pillow block unit
SPG		Standard duty style "G" ball bearing protected screw take-up units
SRC		Rubber mounted ball bearing cartridge unit
SRF		Rubber mounted ball bearing flange unit
SRP		Rubber mounted ball bearing pillow block unit
ST		Standard duty ball bearing take-up unit
STH		Standard duty style "H" ball bearing steel frame take-up unit

MFR. THOMSON INDUSTRIES

CODE 83049

Prefix	Suffix	Definition
A		Precision grade ball bushing
B		Commercial grade ball bushing
	SS	Stainless steel construction
XA		Super precision ball bushing

MFR. **THE TIMKEN ROLLER BEARING CO.** CODE **60038**

Prefix	Suffix	Definition
A		Cone or cup - signifies the use of an "A" size roller which was the smallest made at the time the series were designated
	A	Cone - Gilliam-type cone, for use with Gilliam-type cup
	A	Steering gear bearing cage (retainer) and rollers
	A	Cone - special bore
	A	Cone - special radius
	A	Cup - larger or smaller than cup with same number without suffix
	A	Cup - special OD width, radius or tolerance
	A	Extra bearing or special bearing in series
	AB	Cup - flanged cup
	AC	Cup - special OD width, radius or tolerance
	AD	Cup - double cup or double cone
	AS	Cone or cup - special features
	AX	Cone or cup - not to be interchanged with standard number
	B	Cone - brass or bronze cage (retainer)
	B	Cup - flanged cup
	BA	Steering gear bearing cage (retainer) and rollers - interchangeable with "A" type
	BC	Steering gear bearing (retainer) and rollers - interchangeable with "C" type - not interchangeable with "A" type due to difference in roll design
	BR	Cup - single or double cup with snap ring
	BS	Cup - flanged cup
	BW	Cup - flanged cup with slot (keyway)
	C	Steering gear bearing cage (retainer) and rollers
	C	Cup - special features - can be interchanged with standard number
	C	Cup - wider than standard
	CA	Cone - steering gear bearing cone - naked cone furnished without cage (retainer) or rollers
	CA	Cone - relief groove in back-face
	CB	Cone - steering gear bearing cone - naked cone furnished without cage (retainer) and rollers
	CB	Cone - relief groove in front face
	CC	Cone - relief groove in both faces
	CE	Cup - steering gear cup
CN		Cup - cushioned cup (usually neoprene cushion)
	CP	Cone or cup - chrome plated cone or cup
	CR	Cup - ribbed cup
	CS	Cone or cup - plated finish such as chrome
	CS	Cup - steering gear cup
	D	Cone or cup - double cone or cup - minimum length
	D	Cone or cup - Bock steering pivot bearing

MFR. THE TIMKEN ROLLER BEARING CO. (Cont'd) CODE 60038

Prefix	Suffix	Definition
	DA	Cone - special size cone
	DA	Cup - double cups - spherical OD - self-aligning used with DX shell
	DB	Cup - flanged double cups
	DB	Cone - double cone with brass or bronze retainer (cage)
	DC	Cup - special double cup
	DD	Cup or cone - extra wide double cup or cone
	DE	Cup - extra double cup number
	DE	Cone or cup - double cup or cone - extra in series - variation from D
	DR	Cup - ribbed double cup
	DS	Cup - double cup with crowned OD
	DT	Cone - double cone with tapered bore
	DT	Cup - double cup with tapered OD
	DW	Cup - double cone or cup with slot (keyway)
	DX	Cup - outer shell used with "DA" spherical OD cup. Also used for threaded OD double cup
	E	Cone or cup - special feature bearing not to be interchanged with standard number
	EA	Cup spacer - standard - suffix used following cup number with which it is used
	EB	EC, ED, E, etc. additional cup spacers required
	ED	Cup - double cup
EE		Cone - cone with close guided clearance on roller ends
EH		Cone or cups - extra heavy series
EL		Cone or cup - extra light series
EX		Cone or cup - experimental
F		Cone or cup - current Timken bearing design. Not part of number and no relation to physical dimensions
H		Cone or cup - heavy series
HH		Cone or cup - medium heavy series
HM		Cone or cup - heavy medium series
K		Indicates a machined part used with a bearing but not part of a bearing
	K	Cone or cup - factory identification only. Not part of number and no relation to physical dimensions
	KP	Cone or cup - cadmium plated
L		Cone or cup - light series
LL		Cone or cup - medium light series
LM		Cone or cup - light medium series
M		Cone or cup - medium series
	MM	Cone or cup - factory identification only. Not part of number and no relation to physical dimensions
N		Cone - Gilliam or Bock design - ball bearing replacement
NA		Cone - used with double row nonadjustable type bearing

MFR. THE TIMKEN ROLLER BEARING CO. (Cont'd) CODE 60038

Prefix	Suffix	Definition
	NA	Cone - factory adjusted cone - non-adjustable used with D cup
	NW	Cone - non-adjustable type cones with slotted front faces
	NX	Cone - cone with lapped front face
R		Cone - Gilliam replacement series
	R	Bock bearing for Caterpillar applications
	R	Thrust bearing retainer
RC		Cone or cup - special ribbed cup bearing
	S	Cone or cup - special features not to be interchanged with standard number
	SA	Cone or cup - special features not to be interchanged with standard number
	SB	Cone - brass or bronze cage (retainer)
	SB	Cup - flanged cup
	SD	Cone or cup - double cup or cone
	SPL	Cone or cup - special assembly - chrome plated - supplied to Goodyear
	SR	Cone or cup - special radius and bore
	SW	Cone or cup - slotted cone or cup
	SX	Cone or cup - special experimental
T		Flat type thrust bearing
T		A machined part used with a bearing but not part of a bearing
	T	Cone - tapered bore smaller radius than in normally straight series: many tapered bore cones do not have T suffix
	T	Cup - tapered OD
	TA	Gilliam-type bearing with tapered bore & special cups
TC		Thrust bearing
	TD	Cone - double cone with tapered bore
	TD	Cup - double cup with tapered OD
	TR	Cone - Bock R type cone with tapered bore
	TR	Cone or cup - special wide lateral or running clearance in NA non-adjustable bearings
	U	Cone - special undersize bore
V		Cone or cup - obsolete. Indicated part numbers made for U.S. military services during last war
	V	Cone or cup - obsolete type bearing designs. Not part of number and no relation to physical dimensions
	W	Cone - slotted cone -two angle slots diametrically opposite in cone back-face
	W	Cup - slotted cup
	WA	Cone - slotted cone - single angular slot in cone back-face
	WA	Cup - slotted cup
	WB	Cone - slotted cone - two straight slots diametrically opposite in cone back-face
	WB	Cup - slotted cup
	WC	Cone - slotted cone - full-length slot through cone bore
	WC	Cup - slotted cup

MFR. THE TIMKEN ROLLER BEARING CO. (Cont'd) CODE 60038

Prefix	Suffix	Definition
	WD	Slotted cone - special
	WD	Cup - slotted cup
	X	Cone - slotted cone
	X	Extra part number or slight variation from standard
	X	Cone or cup - special feature bearing not to be interchanged with standard number
	X	Cone or cup - extra cone or cup number sometimes used by British Timken to designate part numbers made by them not made in this country
	XA	Cone spacer - standard - following cone number
	XA	Cone or cup - extra cone or cup number
	XB	Cone - cone with brass or bronze retainer (cage)
	XB	Cup - flanged cup
	XB	Additional cone spacers required XC, XD, XE, etc
XC		All non-bearing surfaces except bore are cadmium plated
XC		Special bearing not a regular line item
	XD	Cone - double cone
	XW	Cone - slotted cone
	YD	Cup - double cup

How to read TIMKEN roller bearing numbers:

EXAMPLE:

EE8575D-8520D

EE 8575 D - 8520 D

Cone - cone with close guided clearance on roller ends
Basic cone number
Double cone
Basic cup number
Double cup

MFR. **THE TORRINGTON CO.** CODE **60380**

Prefix	Suffix	Definition
	A	Oxide black shell
	AA	Oxide black shell and oxide black rollers
AR		Drawn shell type, non-separable needle bearing unit assemblies consisting of "B" or "BH" type needle bearing, inner race and retaining washers
	AS	Oxide black shell and stainless steel rollers
	ASA	Oxide black outer race, stainless steel rollers, and oxide black inner race
AT		Aircraft type needle bearing unit assembly consisting of a through-hardened outer race, single row of rollers and a through-hardened inner race with retaining washers - non-separable assembly
AT	SA	Aircraft self-aligning type needle bearing unit assembly consisting of a through-hardened aligning ring, through-hardened outer race with spherical OD, single row of rollers, and a through-hardened inner race with retaining washers—non-separable inner and outer races
AT	SDA	Aircraft self-aligning type needle bearing unit assembly consisting of a through-hardened aligning ring, through-hardened outer race with spherical OD, double row of rollers, and a through-hardened inner race with retaining washers—non-separable inner and outer races
B		Drawn shell type needle bearing, single row of rollers, no inner race, open end—regular roller series
	B	AFBMA type suffix symbol indicating bearing furnished with manufacturer's regular slush (oil type)—(aircraft type bearings identified by AFBMA numbering system)
	B	Drawn shell type needle bearing with brass shell
BH		Drawn shell type needle bearing, single row of rollers, no inner race, open end—large roller series
BL		Drawn shell type needle bearing, single row of rollers, no inner race, open end—extra large rollers series
BR		Drawn shell type needle bearing unit assemblies consisting of "B" type needle bearing and "IR" type inner race—inner race separable
BRA		Drawn shell type needle bearing unit assemblies consisting of "B" type needle bearing and "IRA" type inner race—inner race extends 1/32 inches and is separable
	C	Chromium plated
	C	AFBMA type suffix symbol indicating bearing furnished with low temperature grease (MIL-G-3278)—(aircraft type bearings identified by AFBMA numbering system)
	CP(or 7000 series)	Obsolete—signified single shielded annular ball bearings (no longer in production)
CR		Cam follower type needle bearing unit assemblies consisting of hardened and ground outer race, rollers, washers and case hardened and ground stud
	D	AFBMA type suffix symbol indicating bearing furnished with low temperature oil (aircraft type bearings identified by AFBMA numbering system)
DR		When preceded by a single digit signifies drawn shell type non-separable needle bearing unit assemblies consisting of two drawn shell type needle bearings mounted on a hardened and ground inner race—(aircraft control system bearings with all exposed surfaces cadmium plated) example: 4DR9, 6DR10
	DS (or 77000 series)	Obsolete—signified double shielded annular ball bearings (no longer in production)

MFR. **THE TORRINGTON CO. (Cont'd)** CODE **60380**

Prefix	Suffix	Definition
	F	AFBMA type suffix symbol indicating lubrication hole in outer ring—(aircraft type bearings identified by AFBMA numbering system)
	F	Lubrication fitting located in flanged end of stud (cam follower type needle bearing unit assemblies)
FDT		Aircraft roller type non-separable needle bearing unit assemblies consisting of extra heavy section outer race, double row of rollers, heavy duty inner race with retaining washers OD, chrome plated, other exposed surfaces cadmium plated
FT		Aircraft roller type, non-separable needle bearing unit assemblies consisting of extra heavy section outer race single row of rollers, heavy duty, inner race with retaining washers OD, chrome plated, other exposed surfaces cadmium plated
G		Drawn shell type needle bearing, precision ground OD
GB		Drawn shell type needle bearing, single row of rollers, no inner race, open end, precision ground OD—regular roller series
GBH		Drawn shell type needle bearing, single row of rollers, no inner race, open end, precision ground OD—large rollers series
	GF	Grease fitting (cam follower type needle bearing unit assemblies)
GM		Drawn shell type needle bearing, single row of rollers, no inner race, closed end, precision ground OD—large rollers series
GMH		Drawn shell type needle bearing, single row of rollers, no inner race, closed end, precision ground OD—large roller series
HR		Drawn shell type needle bearing unit assemblies consisting of "BH" type needle bearing and "IR" inner race—large roller series—inner race separable
HRA		Drawn shell type needle bearing unit assemblies consisting of "BH" type needle bearing and "IRA" type inner race—large roller series—inner race extends 1/32 inch and is separable
IR		Inner race only—for use with "BR" and "HR" series bearings
IRA		Inner race only. 1/32 inch longer than "IR" type. For use with "BRA" and "HRA" series bearings
IS		Obsolete—inner race only (replaced by "IR" series)
	J	AFBMA type suffix symbol indicating bearing OD, chrome plated and all other exposed surfaces of bearing, as mounted, cadmium plated—(aircraft type bearings identified by AFBMA numbering system)
L		Obsolete—annular ball bearing magneto type (no longer in production)
	LT	Low temperature grease
M		Drawn shell type needle bearing, single row of rollers, no inner race, closed end—regular roller series
M		Obsolete—annular ball bearing, magneto type (no longer in production)
MH		Drawn shell type needle bearing, single row of rollers, no inner race, closed end—large roller series
ML		Drawn shell type needle bearing, single row of rollers, no inner race, closed end—extra large roller series
MNB		Drawn shell type needle bearing, single row of rollers, no inner race, closed end, special dimensions—regular roller series
NB		Drawn shell type needle bearing, single row of rollers, no inner race, open end, special dimensions—regular roller series

HE TORRINGTON CO. (Cont'd) CODE 60380

Suffix	Definition
	AFBMA type prefix symbol. When preceded by one or two digits, indicates a non-separable aircraft type needle bearing unit assembly consisting of a through-hardened outer race, single row of rollers, and a through-hardened inner race with retaining washers. (Replacing "AT" series) example; 4NBC612, 14NBC2026
	AFBMA type prefix symbol. When preceded by one digit, indicates aircraft self-aligning type needle bearing unit assembly consisting of a through-hardened aligning ring, through-hardened outer race with spherical OD, single row of rollers, and a through-hardened inner race with retaining washers—non-separable inner and outer races. (Replacing "AT—SA" series) example: 4NBE615, 5NBE717
	AFBMA type prefix symbol. When preceded by one or two digits indicates aircraft roller type non-separable needle bearing unit assemblies consisting of extra heavy section outer race, single row of roller, heavy duty inner race with retaining washers. (Replacing "FT" series) example: 3NBF512, 12NBF1628
	AFBMA type prefix symbol. When preceded by one or two digits, indicates aircraft self-aligning type needle bearing unit assembly consisting of a through-hardened aligning ring, through-hardened outer race with spherical OD, double row of rollers, and a through-hardened inner race with retaining washers—non-separable inner & outer races. (Replacing "AT-SDA" series) example: 7NBK1021, 16NBK2036
	AFBMA type prefix symbol. When preceded by one or two digits indicates aircraft roller type non-separable needle bearing unit assemblies consisting of extra heavy section outer race, double row of rollers, heavy duty inner race with retaining washers. (Replacing "FTD" series) example: 6NBL1616, 12NBL2830
	AFBMA type prefix symbol. When preceded by one or two digits indicates drawn shell type non-separable needle bearing unit assemblies consisting of "B" or "BH" type needle bearing, inner race and retaining washers—aircraft type. (Replacing "AR" series) example: 3NCC1010, 14NCC1822
OH	Oil hole
P	Cadmium plated
	Drawn shell type non-separable needle bearing unit assemblies consisting of a drawn shell type needle bearing mounted on a hardened & ground inner race—(aircraft control system bearing with all exposed surfaces cadmium plated)
	Obsolete—annular ball bearing, all inch dimensions, retainer type, extra small series (no longer in production)
	Special bearing made to customer specifications
	Cam follower type needle bearing unit assemblies consisting of heavy duty outer race, rollers, washers and stud. Body length made to customer specifications
	Obsolete—annular ball bearing retainerless, full complement of balls extra small series (no longer in production)
S	Stainless steel
SA	Self-aligning
SDA	Self-aligning, double row
	Torrington Company
T	Lubricator in threaded end of stud and cotter pin hole omitted
W	Bearing furnished with inner race ground for oscillating motion
X	Extra capacity type superseded, all drawn shell bearings are now extra capacity type
X	AFBMA type suffix symbol indicating bearing furnished with manufacturer's regular slush (heavy type)—(aircraft type bearings identified by AFBMA numbering system)

MFR. **THE TORRINGTON CO. (Cont'd)** CODE **60380**

Prefix	Suffix	Definition
	Y	AFBMA type suffix symbol indicating lubricant groove and lubricant holes in bearing bore—(aircraft type bearing identified by AFBMA numbering system)
	Z	AFBMA type suffix symbol indicating lubricant groove and lubricant holes in bearing OD—(aircraft type bearings identified by AFBMA numbering system)
	1	AFBMA tolerances for industrial bearing
	2	AFBMA tolerances for aircraft bearings
	3	Bearing OD tolerance plus from nominal

How to read TORRINGTON needle bearing numbers:

EXAMPLE:

B218AC OH

B218 A C OH

Basic bearing number
Oxide black shell
Chromium plate
Oil hole

NOTE: The following suffix symbols are used in this order: A, C, P, OH, S, WW

MFR. TYSON BEARING CORP. CODE 61220

Prefix	Suffix	Definition
A		Used on cone and cup numbers to indicate a ball bearing replacement. Example: A-6067—A-6157 replaces the standard number 203 metric ball bearing
	A	Used on cones to indicate cone bore or other special tolerances such as cone radius
	A	Used on cups to identify a different cup length, radius, or special tolerance on diameter
	AB	Used only on cups to denote special "A" cup with flange
	AX	Special cone or bore radius
	B	Used with cone numbers to identify type of cage. Has no relation to cone dimensions
	B	Used with cup part numbers to indicate flanged cup
	C	Used on small cones to identify steering gear application
	C	Occasionally used with cup numbers to indicate special length, diameter, or radius
	D	Used on both cones and cups. Indicates double cone or double cup
EE		Indicates on the larger type cone assemblies, that a fixed large rib and small end rib are used on the cone assembly
	F	Used on cone and cup part numbers to indicate present Timken design. No relation to dimensions
FA		Indicates that the bearing is factory adjusted for looseness or end play
	FR	Used on cones to indicate the full roll or cageless type construction
HM		Used on both cups and cones to identify the bearing as of heavy-medium construction
	K	Used as code for Krupp steel (4% nickel—1-1/2% chrome). No relation to bearing dimensions
LM		Used on both cups and cones to identify the bearings as of the light-medium construction
	M or MM	Used on cones and cups to identify special type of steel. No relation to bearing dimensions
	N	Used on cones and cups by Tyson, always indicates a special part number not manufactured by other tapered roller bearing manufacturers. Frequently it indicates a new cone in a series
	NA	Indicates that the bearing is adjusted by a fixed spacer on the cone
	P	One shield, used on the XLS ball bearing series
	PP	Two shields, used on the XLS ball bearing series
	S	Used on cone and cup part numbers, in some cases identifying straight bore from tapered bore. Also used to denote special radius
T		Used on cone and cup part numbers to identify self-contained thrust bearings
	T	Used on certain cones to indicate tapered bore. Note that some tapered bore cones do not carry this suffix
TDI		Tapered roller bearing series, double row, double cone, two single cups, (retainer or retainerless)
TDI	FA	Tapered roller bearing series, double row, double cone, two single cups, pre-adjusted cup spacer, (retainer or retainerless)
TDO		Tapered roller bearing series, double row, double cup, two single cones, (retainer or retainerless)
TDO	FA	Tapered roller bearing series, double row, double cup, two single cones and pre-adjusted cone spacer, (retainer or retainerless)

MFR. TYSON BEARING CORP. (Cont'd) CODE 61220

Prefix	Suffix	Definition
TQO		Tapered roller bearing, 4 rows, two double cones, one double cup, 2 single cups, with spacers, (retainer or retainerless)
TS		Tapered roller bearing series, single row, single cup, single cone, (retainer or retainerless)
TSF		Tapered roller bearing series, single row, single flanged cup, single cone, (retainer or retainerless)
TSS		Tapered roller bearing, single row, steep angle, single cup, single cone, (retainer or retainerless)
V		Special bearings to replace radial ball bearings during World War II
	X	Special cone bore, radius or cup outside diameter or cup back-face radius
XLS		Extra light, inch type ball bearing series, single row, radial, retainer type
	W	Key-Way cone

How to read TYSON roller bearing numbers:

EXAMPLE:

A762T

A 762 T

Used on cone and cup numbers to indicate a ball bearing replacement
Basic cone number
Used on certain cones to indicate tapered bore

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