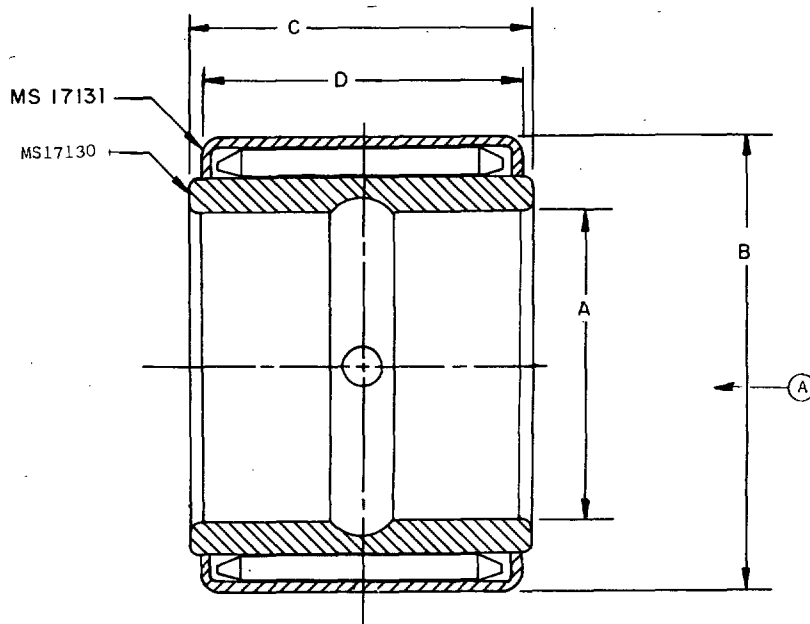


FED. SUP CLASS  
3110REVIEW ACTIVITIES: ARMY-AV, ME, MI, AF-84, DSA-1S  
USER ACTIVITIES: ARMY-WC, MU, GL; NAVY-MC, YD

## NOTES:

1. THESE BEARING ASSEMBLIES CONSIST OF (1) AN OUTER RACE, WITH ROLLERS AND RETAINER, SELECTED FROM MS 17131 AND (2) A CORRESPONDING INNER RACE, SELECTED FROM MS 17130.
2. THE ASSEMBLIES SHALL BE MADE UP IN MATING SETS AS SPECIFIED IN THE TABLE ON SHEET 2.
3. THESE BEARINGS ARE INTENDED TO BE USED ON UNHARDENED SHAFTS. TAPER IN SHAFT SHALL NOT EXCEED .0005 INCH PER INCH OF BEARING LENGTH.
4. LOAD CAPACITIES AND SPEED LIMITS SHALL BE AS SHOWN ON MS 17131.
5. DIMENSIONS ARE IN INCHES AND ARE FOR ENGINEERING REFERENCE ONLY.
6. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
7. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
8. THE MS PART NUMBER SHALL CONSIST OF THE MS NUMBER PLUS THE DASH NUMBER. EXAMPLE: MS 500087-1
9. MARKING SHALL CONSIST OF THE MS PART NUMBER AND THE MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130.

(A) FOR CHANGES SEE SHEETS 1 AND 2

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

P.A. ARMY-AT	TITLE	MILITARY STANDARD
Other Cust NAVY-OS AF- 11	BEARING, ROLLER, NEEDLE: ASSEMBLY (THIN OUTER RACE)	MS 500087
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 1 OF 2

FED. SUP CLASS  
3110

(A)

FOR ACTUAL SIZES & TOLERANCES  
SEE MS17130 AND MS17131

MS DASH NUMBER	"A" NOM	"B" NOM	"C" NOM	"D" NOM	MS17131 DASH NO.	MS17130 DASH NO.
1	3/8	3/4	1/2	1/2	16	61
2	3/8	3/4	3/4	3/4	17	62
3	3/8	13/16	1/2	1/2	18	63
4	3/8	13/16	3/4	3/4	19	1
5	7/16	13/16	3/4	3/4	19	64
6	1/2	1	1/2	1/2	22	65
7	1/2	1	3/4	3/4	23	2
8	5/8	1 1/8	3/4	3/4	26	4
9	5/8	1 1/8	1	1	27	66
10	3/4	1 1/4	3/4	3/4	29	5
11	3/4	1 1/4	1	1	30	67
12	13/16	1 1/4	3/4	3/4	29	6
13	13/16	1 1/4	1	1	30	7
14	7/8	1 3/8	1	1	33	8
15	15/16	1 3/8	1	1	33	9
16	1	1 1/2	1	1	35	10
17	1	1 1/2	1 1/4	1 1/4	36	11
18	1 1/8	1 5/8	1 1/4	1 1/4	40	13
19	1 3/16	1 7/8	1 1/4	1 1/4	43	14
20	1 1/4	1 7/8	1	1	42	15
21	1 1/4	1 7/8	1 1/4	1 1/4	43	16
22	1 3/8	2	1 1/4	1 1/4	45	18
23	1 7/16	2 1/8	1 1/2	1 1/2	48	68
24	1 1/2	2 1/8	1	1	47	21
25	1 1/2	2 1/8	1 1/2	1 1/2	48	69
26	1 3/4	2 5/8	1 1/2	1 1/2	56	24
27	1 7/8	2 1/2	1 1/2	1 1/2	54	70
28	2	2 7/8	1 1/2	1 1/2	57	27
29	2 1/2	3 1/8	1	1	59	71

APPROVED 21 NOV 1967 REVISED (A) FOR CHANGES SEE SHEETS 1 AND 2

P.A. Other Cust	TITLE <b>BEARING, ROLLER, NEEDLE: ASSEMBLY (THIN OUTER RACE)</b>	<b>MILITARY STANDARD</b> <b>MS500087</b>
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 2 OF 2