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AMERICAN NATIONAL STANDARD

***Accredited Standards
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Thrust Needle Roller And Cage Assemblies And Thrust Washers Metric Design ANSI/ABMA 21.1:1988

Secretariat

**American Bearing
Manufacturers Association**

ANSI/ABMA 21.1:1988

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AMERICAN NATIONAL STANDARD

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Thrust Needle Roller and Cage Assemblies and Thrust Washers Metric Design

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Cage Assemblies and Thrust Washers Metric Design

1. SCOPE

This standard for metric thrust needle roller and cage assemblies and thrust washers includes:

- Identification Code
- Symbols and Nomenclature
- Boundary Dimensions
- Tolerances
- Mounting Practice

All thrust needle roller and cage assemblies and thrust washers listed in this standard are not necessarily available. For availability consult bearing manufacturers. Other applicable standards should be consulted for tolerance definitions, gaging practices and methods of evaluating load ratings.

This standard only covers external dimensions. Functional interchangeability between makers of standard thrust needle roller and cage assemblies and thrust washers of the same size may depend on features which are not standardized. Hence the substitution of one make of a standard bearing for another should only be made after careful comparison of their characteristics and consideration of the requirements of the particular application.

2. IDENTIFICATION CODE

2.1 General—This code identifies and as far as possible describes each thrust needle roller and cage assembly or thrust washer on the basis of complete interchangeability. This code establishes a universal language for describing and identifying assemblies and washers in order to facilitate communications between the user and the manufacturer. The code is also intended to simplify the handling by user personnel of identical assemblies or washers made by different manufacturers whose identification numbers may be different.

This code applies only to those metric thrust needle roller and cage assemblies or thrust washers whose boundary dimensions and tolerances conform to this standard.

2.2 Structure of the Code—As shown in the following table, Schematic Arrangement of a Complete Code Number, the code consists of one or two sections.

Section 1, called the Basic Number, includes a diameter symbol made up of a group of numerals, followed by a type symbol made up of a group of letters and finally by a dimension series symbol made up of a group of numerals. This Basic Number must always be used.

Section 2, pertains only to thrust needle roller and cage assemblies, and when used delineates cage materials.

In the Schematic Arrangement Table below, "O" represents any code numeral and "A" represents any code letter.

**SCHEMATIC ARRANGEMENT OF A
COMPLETE CODE NUMBER**

SECTION 1, BASIC NUMBER			SECTION 2*
Diameter	Type	Dimension Series	Cage Material
000	AAA	00	A

*Section 2, when used, pertains only to thrust needle roller and cage assemblies