

**American National Standard**

*For Cutting Tools —*  
*Blanks for Carbide Burrs*

---

SPONSOR  
**Cemented Carbide Producers' Association**

Approved August 9, 2000



**ANSI®**  
**B212.16-2000**  
Revision of  
ANSI B212.16-1994

American National Standard  
for Cutting Tools —  
**Blanks for Carbide Burrs**

Secretariat  
**Cemented Carbide Producers' Association**

Approved August 9, 2000  
**American National Standards Institute, Inc.**

# American National Standard

Approval of an American National Standard requires verification by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by the standards developer.

Consensus is established when, in the judgement of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution.

The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether they have approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards.

The American National Standards Institute does not develop standards and will in no circumstances give any interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute. Requests for interpretations should be addressed to the secretariat or sponsor whose name appears on the title page of this standard.

**CAUTION NOTICE:** This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise, or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by

**Cemented Carbide Producers' Association**  
**30200 Detroit Road, Cleveland, Ohio 44145-1967**

Copyright © 2000 by Cemented Carbide Producers' Association  
All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without prior written permission of the publisher.

Printed in the United States of America

ANSI B212.16-2000

# Contents

	Page
Foreword .....	ii
<b>1</b> Scope .....	<b>1</b>
<b>2</b> Definitions .....	<b>1</b>
<b>3</b> Identification system .....	<b>1</b>

## Tables

<b>1</b> Blanks for carbide burrs — Shape SA (Cylindrical) .....	<b>4</b>
<b>2</b> Blanks for carbide burrs — Shape SC (Cylindrical ball nose) .....	<b>5</b>
<b>3</b> Blanks for carbide burrs — Shape SD (Ball) .....	<b>6</b>
<b>4</b> Blanks for carbide burrs — Shape SE (Olive) .....	<b>7</b>
<b>5</b> Blanks for carbide burrs — Shape SF (Tree, Radius nose) .....	<b>8</b>
<b>6</b> Blanks for carbide burrs — Shape SG (Tree, Pointed nose) .....	<b>9</b>
<b>7</b> Blanks for carbide burrs — Shape SH (Flame) .....	<b>10</b>
<b>8</b> Blanks for carbide burrs — Shape SM (Cone) .....	<b>11</b>
<b>9</b> Blanks for carbide burrs — Shape SL (14-degree cone, Ball nose) ....	<b>12</b>
<b>10</b> Blanks for carbide burrs — Shape SJ (60-degree cone) .....	<b>13</b>
<b>11</b> Blanks for carbide burrs — Shape SK (90-degree cone) .....	<b>14</b>
<b>12</b> Blanks for carbide burrs — Shape SN (Inverted cone) .....	<b>15</b>

**Foreword** (This Foreword is not part of American National Standard B212.16-1999)

On September 21, 1993, the Cemented Carbide Producers' Association held an organizational meeting for the purpose of forming an Accredited Standards Committee for Cemented Carbides. All requirements for the formation of that committee, as contained in the *American National Standards Institute Procedures for the Development and Coordination of American National Standards* (effective September 1, 1982), were submitted to ANSI on October 5, 1983. The proposed committee was designated Accredited Standards Committee B212. Within the B212 Committee, Technical Subcommittee TC-1 was formed, whose scope is:

The standardization of blanks and inserts composed of carbide, ceramic, and compacted diamond/CBN. The standardization of the tools and holders for these blanks and inserts as used for turning (both internal and external) including nomenclature, classification, size, tolerances, and identification.

The material covered in this standard was developed by Technical Subcommittee TC-1 of Accredited Standards Committee B212 after a thorough investigation of all factors involved. It is based on sound engineering practice and reflects the requirements of the industry. The material covered in this standard was originally developed by a technical committee of the Cemented Carbide Producers' Association and submitted to the ASME Committee B94 and promulgated as an American National Standard.

The present standard was revised by Technical Committee 1 of the Accredited Standards Committee B212. It was approved by the American National Standards Institute on November 14, 1994 and designated *American National Standard for Cutting Tools — Blanks for Carbide Burrs*, ANSI B212.16-1994.

Suggestions for improvement of this standard are welcome. They should be sent to the Cemented Carbide Producers' Association, 30200 Detroit Road, Cleveland, OH 44145-1967.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee for Cemented Carbide, B212, approved for accreditation April 1986. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the B212 Committee had the following members:

James R. Diener, Chairman  
J. Jeffery Wherry, Secretary

<i>Organization Represented</i>	<i>Name of Representative</i>
Allison Transmission .....	Jack Sandler
The Association for Manufacturing Technology (AMT) .....	Anthony M. Bratkovich, P.E.
Carboloy, Inc. ....	Don Reinert
Caterpillar, Inc. ....	James R. Diener
Cemented Carbide Producers' Association .....	J. Jeffery Wherry
Greenleaf Corporation .....	Donald R. Hughes
Ingersoll Cutting Tool Company .....	Jim Schultz
Kennametal, Inc. ....	Lee Yothers
Machining Research, Inc. ....	John D. Christopher
Metal Cutting Tools, Inc. ....	Fred Shallenberger
United States Cutting Tool Institute .....	Charles Stockinger
Valenite, Inc. ....	James J. Robinson

The TC-1 Technical Subcommittee of Committee B212, which was responsible for the development of this standard, had the following members:

James R. Diener, Chairman  
J. Jeffery Wherry, Secretary

Dave Bell  
Richard Black  
Jeff Burton  
Keith Crawford  
Donald R. Hughes  
Jeff Kleven  
Joseph Ley  
Thomas Morey  
James Robinson

Mike Powell  
Jack Sandler  
Jim Schultz  
Don Reinert  
Gerry Rhodes  
Gary W. Roderick  
Lee Yothers  
David Wills

## American National Standard for Cutting Tools—

# Blanks for Carbide Burrs

## 1 Scope

This standard covers dimensional specifications and designations for standard blanks for carbide burrs.

## 2 Definitions

**2.1 carbide:** A hardmetal solid produced by sintering a mixture of powdered metal carbide(s) and binder metal(s).

**2.2 blank:** An unfinished hard material product which can be further modified in size and design during a finishing process by grinding or other means.

## 3 Identification system

### 3.1 Blanks for carbide burrs — Shape SA

These are cylindrical. (See table 1.)

#### 3.1.1 Blank designation

Shape SA blanks are designated by the letters BSA or BSB.

#### 3.1.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from  $\frac{1}{4}$ " diameter x  $\frac{3}{16}$ " long to 1" diameter x 1" long.

Example: BSA-3

BSA = Blank, Shape SA

3 = Size 3,  $\frac{3}{8}$ " diameter x  $\frac{3}{4}$ " long

### 3.2 Blanks for carbide burrs — Shape SC

These are cylindrical with a cylindrical ball nose. (See table 2.)

#### 3.2.1 Blank designation

Shape SC blanks are designated by the letters BSC.

#### 3.2.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from  $\frac{1}{4}$ " diameter x  $\frac{1}{2}$ " long to 1" diameter x 1" long.

Example: BSC-5

BSC = Blank, shape SC

5 = Size 5,  $\frac{1}{2}$ " diameter x 1" long

### 3.3 Blanks for carbide burrs — Shape SD

These are ball shaped. (See table 3.)

#### 3.3.1 Blank designation

Shape SD blanks are designated by the letters BSD.

#### 3.3.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{1}{4}$ " diameter ball to a 1" diameter ball.

Example: BSD-51

BSD = Blank, Shape SD

51 = Size 51,  $\frac{1}{4}$ " diameter ball

### 3.4 Blanks for carbide burrs — Shape SE

These are olive shaped. (See table 4.)

### 3.4.1 Blank designation

Shape SE blanks are designated by the letters BSE.

### 3.4.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{1}{4}$ " diameter x  $\frac{3}{8}$ " long to  $\frac{3}{4}$ " diameter x 1" long.

Example: BSE-3

BSE = Blank, Shape SE

3 = Size 3,  $\frac{3}{8}$ " diameter x  $\frac{5}{8}$ " long

### 3.5 Blanks for carbide burrs — Shape SF

These are tree shaped with a radius nose. (See table 5.)

#### 3.5.1 Blank designation

Shape SF blanks are designated by the letters BSF.

#### 3.5.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{1}{4}$ " diameter x  $\frac{1}{2}$ " long to  $\frac{3}{4}$ " diameter x 1  $\frac{1}{2}$ " long.

Example: BSF-5

BSF = Blank, Shape SF

5 = Size 5,  $\frac{1}{2}$ " diameter x 1" long

### 3.6 Blanks for carbide burrs — Shape SG

These are tree shaped with a pointed nose. (See table 6.)

#### 3.6.1 Blank designation

Shape SG blanks are designated by the letters BSG.

#### 3.6.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes ranges from a nominal  $\frac{1}{4}$ " diameter x  $\frac{1}{2}$ " long to  $\frac{3}{4}$ " diameter x 1  $\frac{1}{2}$ " long.

Example: BSG-51

BSG = Blank, Shape SG

51 = Size 51,  $\frac{1}{4}$ " diameter x  $\frac{1}{2}$ " long

### 3.7 Blanks for carbide burrs — Shape SH

These are flame shaped. (See table 7.)

#### 3.7.1 Blank designation

Shape SH blanks are designated by the letters BSH.

#### 3.7.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{5}{16}$ " diameter x  $\frac{3}{4}$ " long to  $\frac{3}{4}$ " diameter x 1  $\frac{5}{8}$ " long.

Example: BSH-6

BSH = Blank, Shape SH

6 = Size 6,  $\frac{5}{8}$ " diameter x 1  $\frac{7}{16}$ " long

### 3.8 Blanks for carbide burrs — Shape SM

These are cone shaped. (See table 8.)

#### 3.8.1 Blank designation

Shape SM blanks are designated by the letters BSM.

#### 3.8.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{1}{4}$ " diameter x  $\frac{5}{8}$ " long to  $\frac{5}{8}$ " diameter x 1  $\frac{1}{8}$ " long.

Example: BSM-4

BSM = Blank, Shape SM

4 = Size 4,  $\frac{3}{8}$ " diameter x  $\frac{3}{4}$ " long

### 3.9 Blanks for carbide burrs — Shape SL

These are 14-degree cones with a ball nose. (See table 9.)

#### 3.9.1 Blank designation

Shape SL blanks are designated by the letters BSL.

#### 3.9.2 Size designation

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{5}{16}$ " diameter x 1" long to  $\frac{3}{4}$ " diameter x 1  $\frac{5}{8}$ " long.

Example: BSL-3

BSL = Blank, Shape SL

3 = Size 3,  $\frac{3}{8}$ " diameter x 1  $\frac{3}{16}$ " long

**3.10 Blanks for carbide burrs — Shape SJ**

These are 60-degree cones. (See table 10.)

**3.10.1 Blank designations**

Shape SJ blanks are designated by the letters BSJ.

**3.10.2 Size designation**

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{3}{8}$ " diameter x  $\frac{7}{16}$ " long to 1" diameter x  $\frac{31}{32}$ " long.

Example: BSJ-6

BSJ = Blank, Shape SJ

6 = Size 6,  $\frac{5}{8}$ " diameter x  $\frac{11}{16}$ " long

**3.11 Blanks for carbide burrs — Shape SK**

These are 90-degree cones. (See table 11.)

**3.11.1 Blank designation**

Shape SK blanks are designated by the letters BSK.

**3.11.2 Size designation**

The designating letters are followed by an arbitrary number, which indicates the size.

Sizes range from a nominal  $\frac{3}{8}$ " diameter x  $\frac{5}{16}$ " long to 1" in diameter x  $\frac{41}{64}$ " long.

Example: BSK-7

BSK = Blank, Shape SK

7 = Size 7,  $\frac{3}{4}$ " diameter x  $\frac{35}{64}$ " long

**3.12 Blanks for carbide burrs — Shape SN**

These are inverted cones. (See table 12.)

**3.12.1 Blank designation**

Shape SN blanks are designated by the letters BSN.

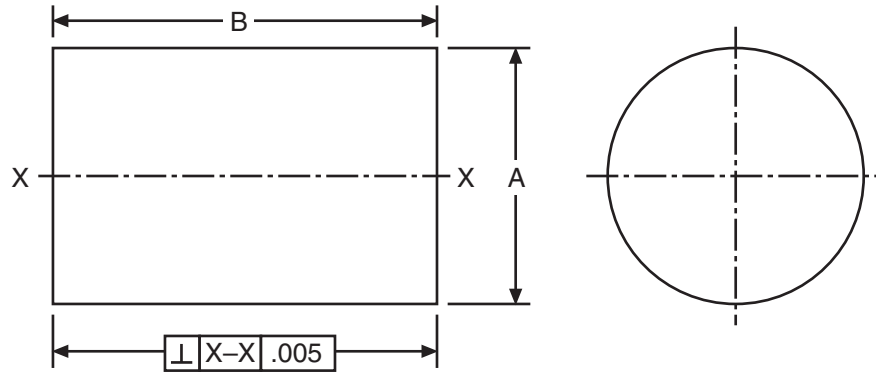
**3.12.2 Size designation**

The designating letters are followed by an arbitrary number, which indicates the size. Sizes range from a nominal  $\frac{1}{4}$ " diameter x  $\frac{1}{4}$ " long to  $\frac{3}{4}$ " diameter x  $\frac{5}{8}$ " long.

Example: BSN-7

BSN = Blank, Shape SN

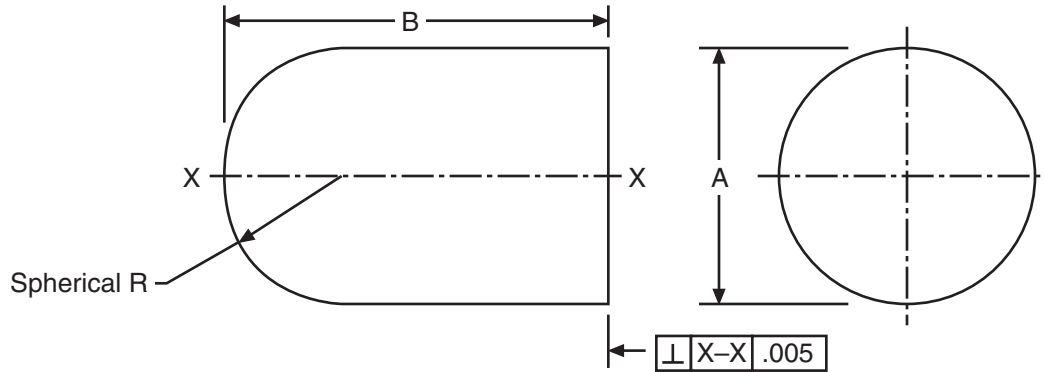
7 = Size 7,  $\frac{3}{4}$ " diameter x  $\frac{5}{8}$ " long



**Table 1 – Blanks for carbide burrs — Shape SA (Cylindrical)**

Blank Designation	A		B	
	Nominal	Actual	Nominal	Actual
BSA-51 S	1/4	0.265 ± 0.005	3/16	0.193 ± 0.010
BSA-51	1/4	0.265 ± 0.005	1/2	0.500 ± 0.010
BSA-2	5/16	0.327 ± 0.005	3/4	0.750 ± 0.010
BSA-3	3/8	0.390 ± 0.005	3/4	0.750 ± 0.010
BSA-4	7/16	0.453 ± 0.005	1	1.000 ± 0.010
BSA-5	1/2	0.515 ± 0.005	1	1.000 ± 0.010
BSA-6	5/8	0.640 ± 0.005	1	1.000 ± 0.010
BSA-16	3/4	0.767 ± 0.006	1/2	0.500 ± 0.010
BSA-72	3/4	0.767 ± 0.006	3/4	0.750 ± 0.010
BSA-7	3/4	0.767 ± 0.006	1	1.000 ± 0.010
BSA-8	7/8	0.892 ± 0.006	1	1.000 ± 0.010
BSA-9	1	1.019 ± 0.007	1	1.000 ± 0.010

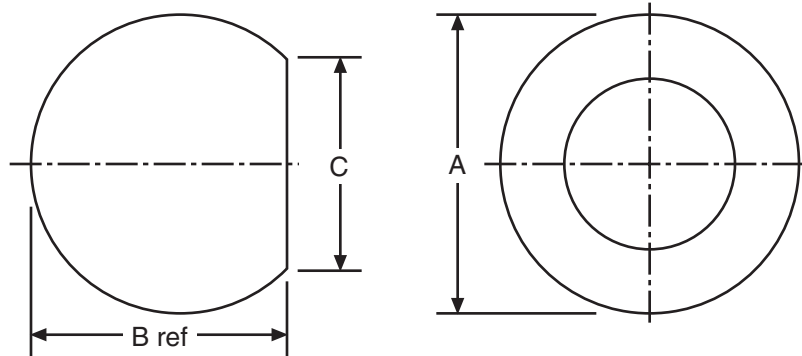
All dimensions in inches.



**Table 2 – Blanks for carbide burrs — Shape SC (Cylindrical ball nose)**

Blank Designation	A		B		R
	Nominal	Actual	Nominal	Actual	
BSC-51	1/4	0.265 ± 0.005	1/2	0.500 ± 0.010	0.133
BSC-2	5/16	0.327 ± 0.005	3/4	0.750 ± 0.010	0.164
BSC-3	3/8	0.390 ± 0.005	3/4	0.750 ± 0.010	0.195
BSC-4	7/16	0.453 ± 0.005	1	1.000 ± 0.010	0.227
BSC-5	1/2	0.515 ± 0.005	1	1.000 ± 0.010	0.258
BSC-6	5/8	0.640 ± 0.005	1	1.000 ± 0.010	0.320
BSC-15	3/4	0.767 ± 0.006	1/2	0.500 ± 0.010	0.384
BSC-16	3/4	0.767 ± 0.006	3/4	0.750 ± 0.010	0.384
BSC-7	3/4	0.767 ± 0.006	1	1.000 ± 0.010	0.384
BSC-9	1	1.019 ± 0.007	1	1.000 ± 0.010	0.510

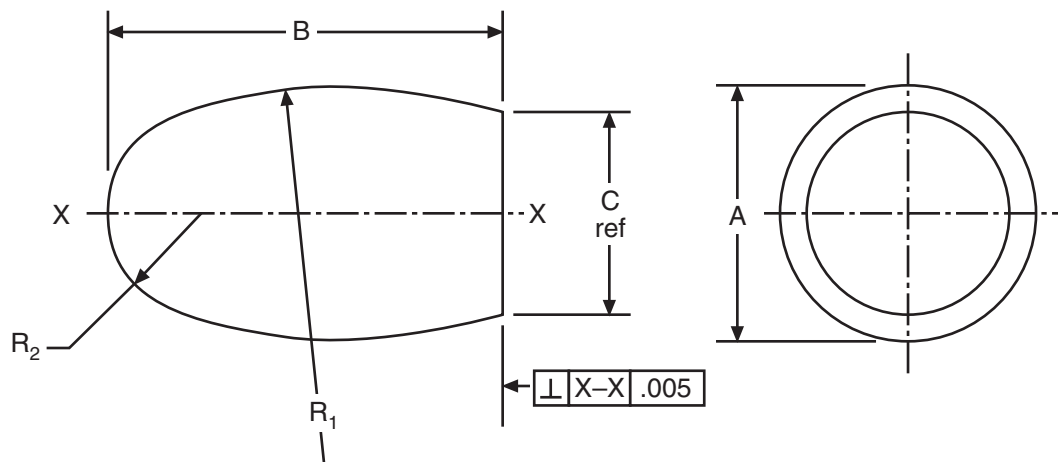
All dimensions in inches.



**Table 3 – Blanks for carbide burrs — Shape SD (Ball)**

Blank Designation	A		B	C
	Nominal	Actual		
BSD-51	1/4	0.265 ± 0.005	0.220	0.188 ± 0.005
BSD-2	5/16	0.327 ± 0.005	0.276	0.226 ± 0.005
BSD-3	3/8	0.390 ± 0.005	0.332	0.265 ± 0.005
BSD-4	7/16	0.453 ± 0.005	0.392	0.297 ± 0.005
BSD-5	1/2	0.515 ± 0.005	0.450	0.329 ± 0.005
BSD-6	5/8	0.640 ± 0.005	0.568	0.390 ± 0.005
BSD-7	3/4	0.767 ± 0.006	0.686	0.456 ± 0.005
BSD-9	1	1.019 ± 0.007	0.924	0.578 ± 0.005

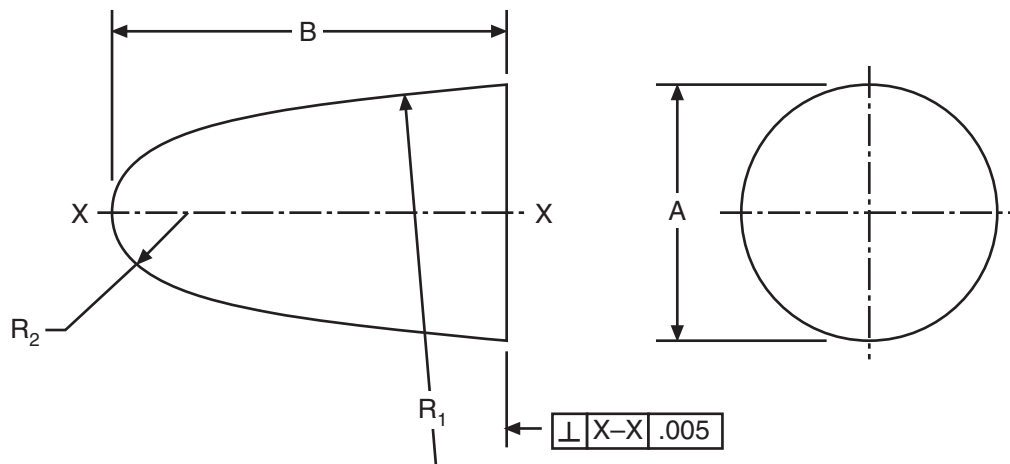
All dimensions in inches.



**Table 4 – Blanks for carbide burrs — Shape SE (Olive)**

Blank Designation	A		B		C	R <sub>1</sub>	R <sub>2</sub>
	Nom	Actual	Nom	Actual			
BSE-51	1/4	0.265 ± 0.005	3/8	0.375 ± 0.010	0.216	0.427 ± 0.006	0.099 ± 0.005
BSE-3	3/8	0.390 ± 0.005	5/8	0.625 ± 0.010	0.311	0.880 ± 0.008	0.161 ± 0.005
BSE-5	1/2	0.515 ± 0.005	7/8	0.875 ± 0.010	0.406	1.255 ± 0.012	0.208 ± 0.006
BSE-6	5/8	0.640 ± 0.005	1	1.000 ± 0.010	0.507	1.255 ± 0.012	0.255 ± 0.006
BSE-7	3/4	0.767 ± 0.006	1	1.000 ± 0.010	0.495	0.802 ± 0.008	0.318 ± 0.006

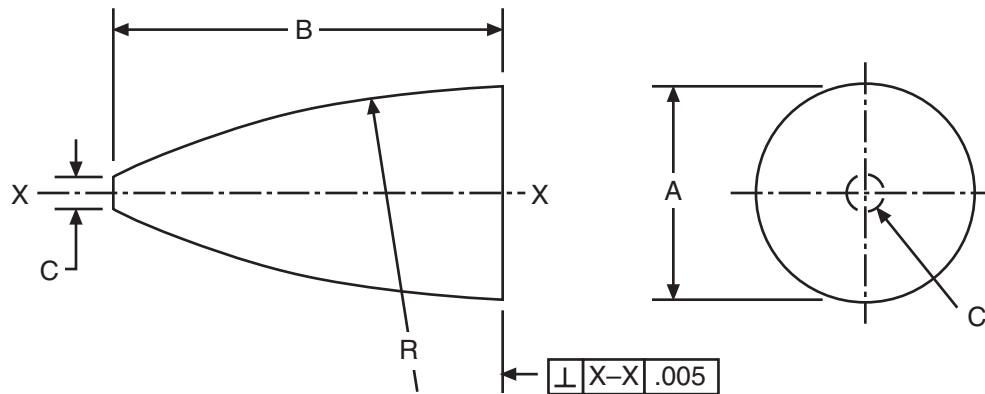
All dimensions in inches.



**Table 5 – Blanks for carbide burrs — Shape SF (Tree, Radius nose)**

Blank Designation	A		B		R <sub>1</sub>	R <sub>2</sub>
	Nominal	Actual	Nominal	Actual		
BSF-51	1/4	0.265 ± 0.005	1/2	0.500 ± 0.010	1.630 ± 0.018	0.068 ± 0.005
BSF-3	3/8	0.390 ± 0.005	3/4	0.750 ± 0.010	2.300 ± 0.020	0.098 ± 0.005
BSF-4	7/16	0.453 ± 0.005	1	1.000 ± 0.010	3.255 ± 0.020	0.098 ± 0.005
BSF-13	1/2	0.515 ± 0.005	3/4	0.750 ± 0.010	1.760 ± 0.020	0.130 ± 0.005
BSF-5	1/2	0.515 ± 0.005	1	1.000 ± 0.010	3.255 ± 0.020	0.130 ± 0.005
BSF-6	5/8	0.640 ± 0.005	1	1.000 ± 0.010	3.005 ± 0.020	0.194 ± 0.006
BSF-7	3/4	0.767 ± 0.005	1	1.000 ± 0.010	2.130 ± 0.020	0.194 ± 0.006
BSF-14	3/4	0.767 ± 0.006	1 1/4	1.250 ± 0.015	3.319 ± 0.020	0.194 ± 0.006
BSF-15	3/4	0.767 ± 0.006	1 1/2	1.500 ± 0.015	5.069 ± 0.020	0.194 ± 0.006

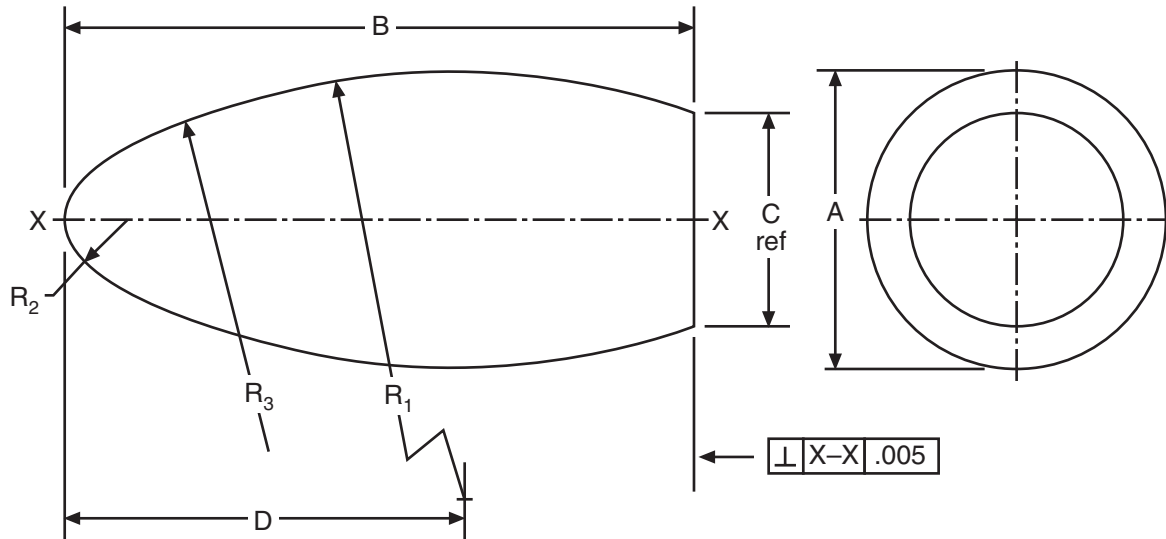
All dimensions in inches.



**Table 6 – Blanks for carbide burrs — Shape SG (Tree, Pointed nose)**

Blank Designation	A		B		C	R
	Nominal	Actual	Nominal	Actual		
BSG-51	1/4	0.265 ± 0.005	1/2	0.500 ± 0.010	0.042 ± 0.005	1.005 ± 0.008
BSG-2	5/16	0.327 ± 0.005	3/4	0.750 ± 0.010	0.055 ± 0.005	2.005 ± 0.018
BSG-3	3/8	0.390 ± 0.005	3/4	0.750 ± 0.010	0.056 ± 0.005	1.505 ± 0.012
BSG-13	1/2	0.515 ± 0.005	3/4	0.750 ± 0.010	0.073 ± 0.005	1.318 ± 0.012
BSG-5	1/2	0.515 ± 0.005	1	1.000 ± 0.010	0.073 ± 0.005	2.255 ± 0.020
BSG-6	5/8	0.640 ± 0.005	1	1.000 ± 0.010	0.073 ± 0.005	1.880 ± 0.016
BSG-7	3/4	0.767 ± 0.006	1	1.000 ± 0.010	0.075 ± 0.005	1.631 ± 0.014
BSG-15	3/4	0.767 ± 0.006	1 1/2	1.500 ± 0.010	0.088 ± 0.005	3.505 ± 0.020

All dimensions in inches.



**Table 7 – Blanks for carbide burrs — Shape SH (Flame)**

Blank Designation	A		B		C	D	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>
	Nom	Actual	Nom	Actual					
BSH-2	5/16	0.327 ± 0.005	3/4	0.750 ± 0.010	0.257	0.489 ± 0.015	1.068 ± 0.010	0.068 ± 0.005	—
BSH-5	1/2	0.515 ± 0.005	1 1/4	1.250 ± 0.015	0.431	0.854 ± 0.015	2.005 ± 0.018	0.099 ± 0.005	—
BSH-6	5/8	0.640 ± 0.005	1 7/16	1.438 ± 0.015	0.495	0.880 ± 0.015	2.255 ± 0.020	0.099 ± 0.005	0.755 ± 0.008
BSH-7	3/4	0.767 ± 0.006	1 5/8	1.625 ± 0.020	0.548	1.002 ± 0.015	1.881 ± 0.016	0.162 ± 0.005	—

All dimensions in inches.

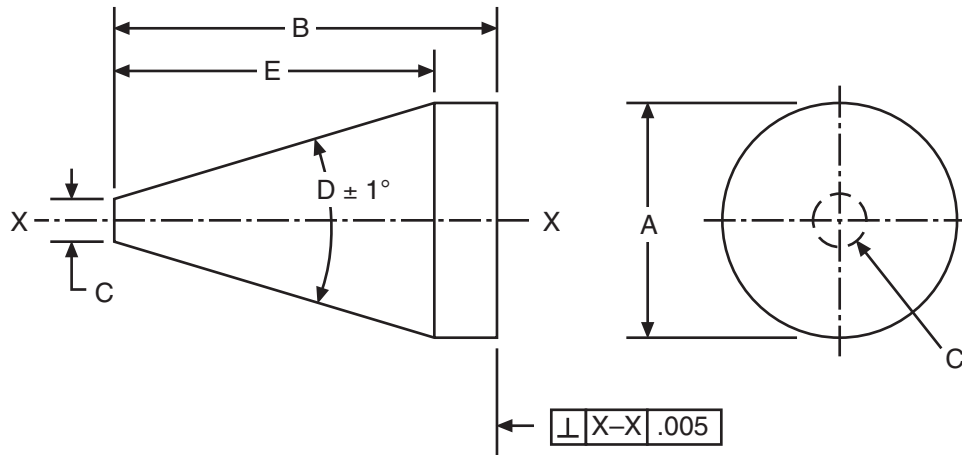
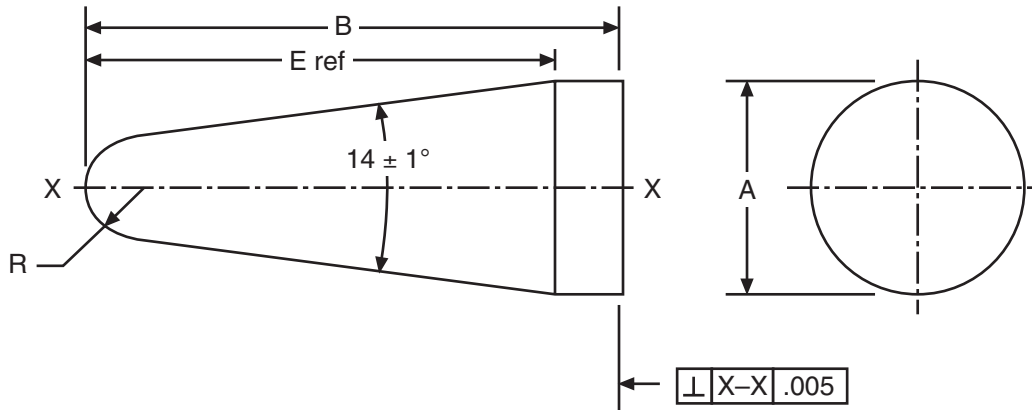


Table 8 – Blanks for carbide burrs — Shape SM (Cone)

Blank Designation	A		B		C	D degrees	E ref.
	Nominal	Actual	Nominal	Actual			
BSM-51	1/4	$0.265 \pm 0.005$	5/8	$0.635 \pm 0.010$	$0.065 \pm 0.005$	22	0.514
BSM-4	3/8	$0.390 \pm 0.005$	3/4	$0.760 \pm 0.010$	$0.073 \pm 0.005$	28	0.636
BSM-5	1/2	$0.515 \pm 0.005$	1	$1.010 \pm 0.010$	$0.073 \pm 0.005$	28	0.886
BSM-6	5/8	$0.640 \pm 0.005$	1 1/8	$1.141 \pm 0.015$	$0.080 \pm 0.005$	31	1.010

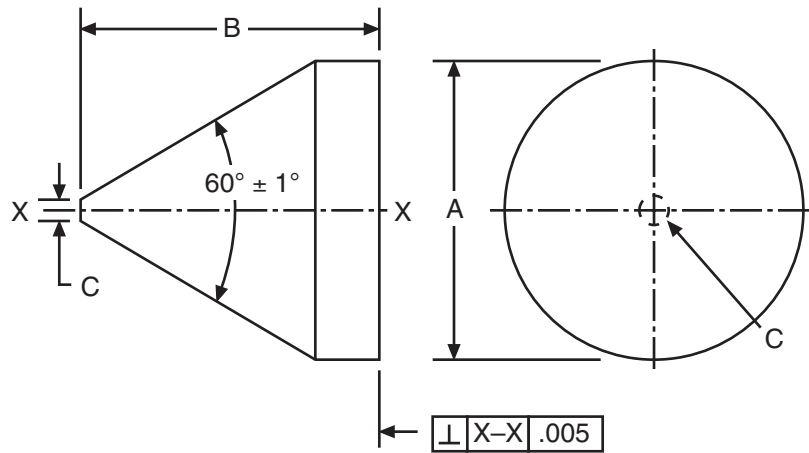
All dimensions in inches.



**Table 9 – Blanks for carbide burrs — Shape SL (14-degree cone, Ball nose)**

Blank Designation	A		B		R		E ref.
	Nominal	Actual	Nominal	Actual	Nominal	Actual	
BSL-2	5/16	0.327 ± 0.005	1	1.015 ± 0.010	0.055	0.060 ± 0.0025	7/8
BSL-3	3/8	0.390 ± 0.005	1 3/16	1.208 ± 0.015	0.065	0.070 ± 0.0025	1 1/16
BSL-4	1/2	0.515 ± 0.005	1 1/4	1.271 ± 0.015	0.126	0.131 ± 0.0025	1 1/8
BSL-5	5/8	0.640 ± 0.005	1 5/16	1.333 ± 0.015	0.188	0.193 ± 0.0025	1 3/16
BSL-6	5/8	0.640 ± 0.005	1 7/16	1.458 ± 0.015	0.171	0.176 ± 0.0025	1 5/16
BSL-7	3/4	0.767 ± 0.006	1 5/8	1.646 ± 0.020	0.216	0.222 ± 0.003	1 1/2

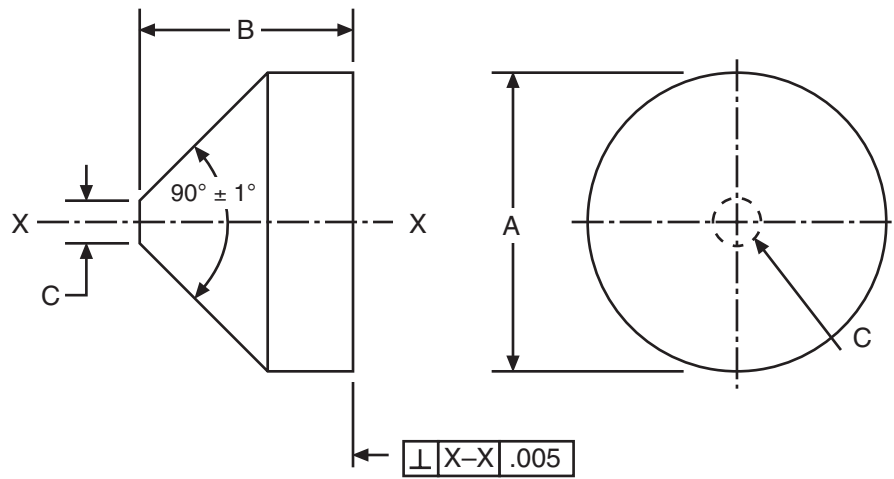
All dimensions in inches.



**Table 10 – Blanks for carbide burrs — Shape SJ (60-degree cone)**

Blank Designation	A		B		C
	Nominal	Actual	Nominal	Actual	
BSJ-3	3/8	$0.390 \pm 0.005$	7/16	$0.438 \pm 0.010$	$0.032 \pm 0.005$
BSJ-5	1/2	$0.515 \pm 0.005$	35/64	$0.547 \pm 0.010$	$0.032 \pm 0.005$
BSJ-6	5/8	$0.640 \pm 0.005$	11/16	$0.688 \pm 0.010$	$0.063 \pm 0.005$
BSJ-7	3/4	$0.767 \pm 0.006$	51/64	$0.797 \pm 0.010$	$0.063 \pm 0.005$
BSJ-9	1	$1.019 \pm 0.007$	31/32	$0.969 \pm 0.010$	$0.125 \pm 0.005$

All dimensions in inches.



**Table 11 – Blanks for carbide burrs — Shape SK (90-degree cone)**

Blank Designation	A		B		C
	Nominal	Actual	Nominal	Actual	
BSK-3	3/8	0.390 ± 0.005	5/16	0.313 ± 0.010	0.032 ± 0.005
BSK-5	1/2	0.515 ± 0.005	3/8	0.375 ± 0.010	0.032 ± 0.005
BSK-6	5/8	0.640 ± 0.005	31/64	0.484 ± 0.010	0.063 ± 0.005
BSK-7	3/4	0.767 ± 0.006	35/64	0.547 ± 0.010	0.063 ± 0.005
BSK-9	1	1.019 ± 0.007	41/64	0.641 ± 0.010	0.125 ± 0.005

All dimensions in inches.

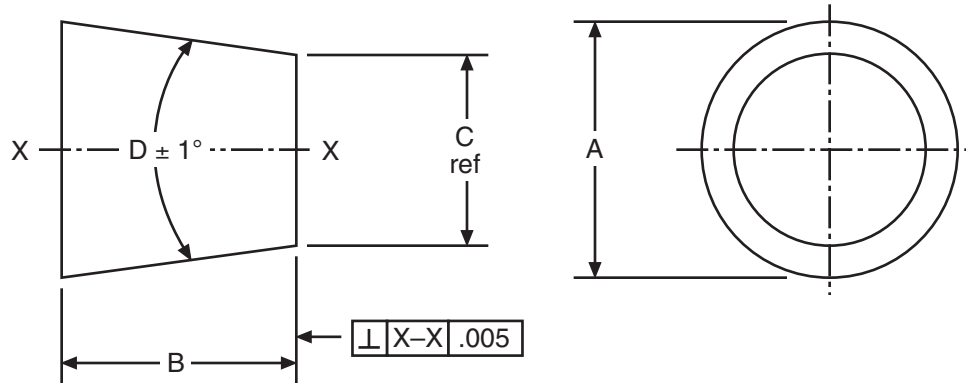


Table 12 – Blanks for carbide burrs — Shape SN (Inverted cone)

Blank Designation	A		B		C	D degrees
	Nominal	Actual	Nominal	Actual		
BSN-51	1/4	0.265 ± 0.005	1/4	0.250 ± 0.010	0.221	10
BSN-2	3/8	0.390 ± 0.005	3/8	0.375 ± 0.010	0.305	13
BSN-3	1/2	0.515 ± 0.005	1/2	0.500 ± 0.010	0.374	16
BSN-4	1/2	0.515 ± 0.005	1/2	0.500 ± 0.010	0.266	28
BSN-5	5/8	0.640 ± 0.005	5/8	0.625 ± 0.010	0.431	19
BSN-6	5/8	0.640 ± 0.005	3/4	0.750 ± 0.010	0.403	18
BSN-7	3/4	0.767 ± 0.006	5/8	0.625 ± 0.010	0.432	30

All dimensions in inches.