

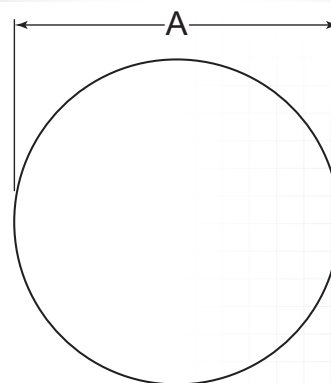
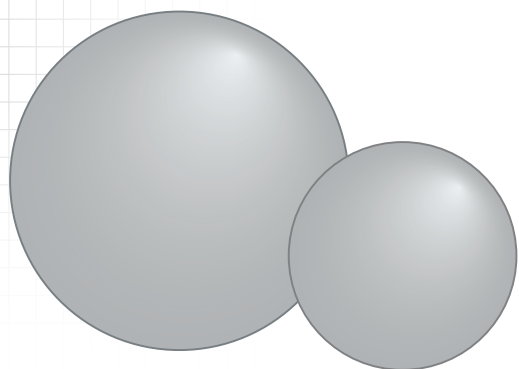
PRECISION – IMPERIAL

DESCRIPTION

Precision balls are used mainly in ball bearing designs and other demanding industrial applications. The surface roughness of precision balls may be as smooth as .000008" Arithmetic Average depending on grade. Hardness varies depending on material grade selected.

HOW TO IDENTIFY

1. Verify round design.
2. Select grade.
3. Measure diameter (A).
4. Build the part number from the chart below.



PREFIX MATERIAL/FINISH

BALL-10 = GRADE 25, CHROME STEEL, PLAIN

BALL-11 = GRADE 1000, CARBON STEEL, PLAIN*

BALL-12 = GRADE 100, 440 STAINLESS STEEL, PLAIN

BALL-121 = GRADE 100, 316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

HOW TO BUILD A PART NUMBER

BALL-10-1437

BALL-10-

1437

ITEM PREFIX

TO ORDER CHOOSE
YOUR MATERIAL,

(A)
DIAMETER

CHOOSE YOUR
DIAMETER.

CODE	MATERIAL
BALL-10	Grade 25, Chrome Steel, Plain
BALL-11	Grade 1000, Carbon Steel, Plain*
BALL-12	Grade 100, 440 Stainless Steel, Plain
BALL-121	Grade 100, 316 Stainless Steel, Plain

CODE	DIAMETER
0015	.0156" (1/64)
0031	.0313" (1/32)
0404	.0400"
0046	.0469" (3/64)
0062	.0625" (1/16)
0078	.0781" (5/64)
0083	.0830"
0093	.0938" (3/32)
0109	.1094" (7/64)
0125	.1250" (1/8)
0140	.1406" (9/64)
0156	.1563" (5/32)
0171	.1719" (11/64)
0187	.1875" (3/16)
0203	.2031" (13/64)
0218	.2188" (7/32)
0234	.2344" (15/64)
0250	.2500" (1/4)
0265	.2656" (17/64)

CODE	DIAMETER
0281	.2813" (9/32)
0296	.2969" (19/64)
0312	.3125" (5/16)
0328	.3281" (21/64)
0343	.3437" (11/32)
0359	.3594" (23/64)
0375	.3750" (3/8)
0406	.4063" (13/32)
0437	.4375" (7/16)
0453	.4531" (29/64)
0468	.4687" (15/32)
0484	.4844" (31/64)
0500	.5000" (1/2)
0531	.5312" (17/32)
0562	.5625" (9/16)
0593	.5937" (19/32)
0625	.6250" (1/16)
0656	.6562" (21/32)
0687	.6875" (11/16)

CODE	DIAMETER
0718	.7188" (23/32)
0750	.7500" (3/4)
0781	.7813" (25/32)
0812	.8125" (13/16)
0843	.8438" (27/32)
0875	.8750" (7/8)
0906	.9063" (29/32)
0937	.9375" (15/16)
0959	.9590"
0968	.9688" (31/32)
1000	1.0000" (1)
1062	1.0625" (1-1/16)
1125	1.1250" (1-1/8)
1187	1.1875" (1-3/16)
1250	1.2500" (1-1/4)
1312	1.3125" (1-5/16)
1375	1.3750" (1-3/8)
1437	1.4375" (1-7/16)
1500	1.5000" (1-1/2)

CODE	DIAMETER
1562	1.5625" (1-9/16)
1625	1.6250" (1-5/8)
1687	1.6875" (1-11/16)
1750	1.7500" (1-3/4)
1812	1.8125" (1-13/16)
1875	1.8750" (1-7/8)
1937	1.9375" (1-15/16)
2000	2.0000" (2)
2125	2.1250" (2-1/8)
2250	2.2500" (2-1/4)
2375	2.3750" (2-3/8)
2500	2.5000" (2-1/2)
2625	2.6250" (2-5/8)
2750	2.7500" (2-3/4)
3000	3.0000" (3)
5500	5.5000" (5-1/2)

TOLERANCES

Grade	Tolerance
25	±.000025"
100	±.0001"
1000	±.001"

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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*Limited warranty for surface finish: 30 days from date of shipment. See page 12 for details.