# BALLS

### HUYETT.COM • 785-392-3017

#### BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

### PRECISION BALL FEATURES

Precision balls are used mainly in ball bearing designs and other demanding industrial applications. They are manufactured to the American Bearing Manufacturers Association (ABMA) Standard 10, which characterizes their geometric tolerances. Grades range from 2000 to 3. The smaller the number the higher the precision and lack of flats, pits, cuts, or other geometric anomalies. The surface roughness of precision balls may be as smooth as .000008" Arithmetic Average depending on grade. Hardness varies depending on material grade selected.



## **QUICK REFERENCE GUIDE**

PRECISION BALLS	COMMON NAMES	APPLICABLE STANDARDS	FABRICATION	HOW TO	COMMON USES	COMMENTS
	Bearing Balls; Steel Balls	ABMA STD-10	Wire is cut into pellets, which are then spherized using specialized machinery. Steel balls may be heat treated and ground.	Diameter × grade.	Ball bearings, precision valves, free wheel mechanisms, kinematic mounts.	Imperfections are generally not visible to the naked eye.

