



**THOMSON PRECISION BALLS**

Made with Pride –  
Backed with Accreditation

## Precision Balls

Standard and Non-Standard Balls for High-Precision Applications

## Quality Ball Technology From Thomson: FAST

Thomson Precision Ball has been an industry standard for more than 75 years. Our focus has been servicing precision industries with specialty and production runs of standard and non-standard balls. Our U.S.-based manufacturing, A2LA-accredited laboratory, technical center and warehouse are able to balance quality and delivery demands with competitive pricing and local service. We are your local, fast and flexible source for precision balls.



Thomson Precision Ball is an ISO-9001:2015-registered factory and ISO 17025 - A2LA-accredited laboratory, and can provide material from a manufacturing plant that is TS-16949-registered and AIAG CQI-9-compliant.

### Key Markets

- Aerospace, including flight-critical systems
- Automotive (Tier 2)
- Bearing manufacturers
- Ball screw manufacturers and rebuilders
- Cosmetic / Consumer goods

### Key Applications

- Hollow ball transfer units
- Bearings and ball screws
- Casting / Machining plug balls
- Check valve balls
- Cosmetic / Chemical mixing balls

| Material Type<br>(Standard Specifications)*                   | Standard Size<br>Range**       | Grade Range | Applications   |
|---|--------------------------------|-------------|--|
| Chrome Steel 52100<br>AMS-6440<br>ASTM A295<br>AMS-6444       | 1/32 - 2.00"<br>0.8 - 50.8 mm  | G3 to G25   | <ul style="list-style-type: none"> <li>• Bearings</li> <li>• Ball Screws</li> <li>• Automotive (transmission, steering, anti-lock brakes)</li> <li>• Valves</li> <li>• Couplings</li> </ul>                        |
| Stainless Steel Type 440C<br>AMS-5630<br>AMS-5880<br>AMS-5618 | 0.039 - 2.00"<br>1.0 - 50.8 mm | G3 to G25   | <ul style="list-style-type: none"> <li>• Bearings</li> <li>• Ball Screws</li> <li>• Automotive (transmission, steering, anti-lock brakes)</li> <li>• Valves</li> <li>• Couplings</li> </ul>                        |
| Stainless Steel Type 302, 304, 316                            | 1/16 - 1.00"<br>1.6 - 25.4 mm  | G50 to G200 | <ul style="list-style-type: none"> <li>• Valves</li> <li>• Detent Balls</li> <li>• Vent Balls</li> <li>• Mixing Balls (soap dispensers, cosmetics)</li> <li>• Plug Balls</li> <li>• Pumps / Pump Sprays</li> </ul> |
| Ceramic - Silicon Nitride<br>(ASTM F2094 Class 2)             | 1/32 - 2.00"<br>0.8 - 50.8 mm  | G3 to G25   | <ul style="list-style-type: none"> <li>• High-End Bearings</li> <li>• Ball Screws</li> <li>• Valves</li> <li>• Aerospace Bearings</li> </ul>   |

\* Other precision ball materials, including M50, K-Monel, Tungsten Carbide, Titanium and Glass, are available upon request.

\*\* Sizes from 0.012 - 3.00" (0.3 - 76.2 mm) in diameter are available upon request

Contact our Thomson precision ball experts to discover the optimal solution for your application:

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**THOMSON**<sup>®</sup>

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Precision Balls | 20230428KB  
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