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Precision balls –  
of the highest  
grade

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Our balls have made a name for themselves worldwide thanks to their exceptional accuracy and high quality. We have honed and perfected our process over many years, enabling us to

achieve precise repeatability. Reliable and, on request, in multiple versions.

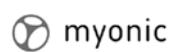
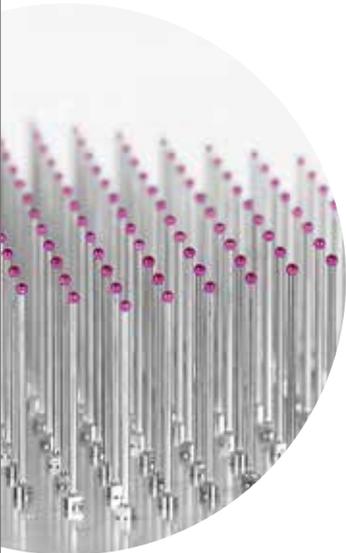
The ceramic balls are made from the toughest materials and are available in many different sizes: the smallest has a diame-

ter of less than 0.2 mm, while the largest is over 50 mm in diameter.

Our experience and expertise will provide you with the right solution.

#### Dimensional and shape accuracy, roughness per DIN 5401 – Part 1

Class	Ball av. to	Deviation from perfect shape $T_{DWS}$	Surface roughness $R_a$ max.	Diameter variation in LoS $V_{DWL}$
G3	12.7 mm	0.08 $\mu\text{m}$	0.010 $\mu\text{m}$	0.13 $\mu\text{m}$
G5	12.7 mm	0.13 $\mu\text{m}$	0.014 $\mu\text{m}$	0.25 $\mu\text{m}$
G10	25.4 mm	0.25 $\mu\text{m}$	0.020 $\mu\text{m}$	0.50 $\mu\text{m}$
G16	25.4 mm	0.40 $\mu\text{m}$	0.025 $\mu\text{m}$	0.80 $\mu\text{m}$
G20	38.1 mm	0.50 $\mu\text{m}$	0.032 $\mu\text{m}$	1.00 $\mu\text{m}$





# saphirwerk ●

swiss precision in ceramics

**Saphirwerk AG** • Erlenstrasse 36 • CH-2555 Brugg  
Phone +41 (0)32 374 25 85 • [info@saphirwerk.com](mailto:info@saphirwerk.com) • [saphirwerk.com](http://saphirwerk.com)