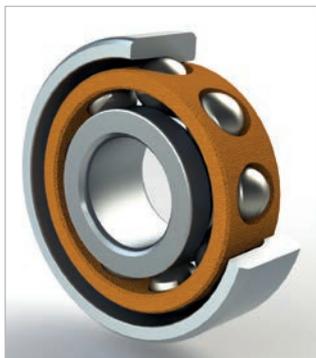


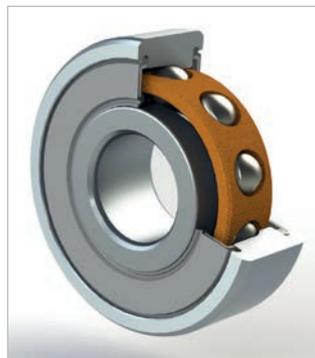


The precision of a machine tool's spindle is key to its performance. Due to the increasing complexities of industrial machine tool design, CW Bearing offers a range of super precision bearings which are specially optimised to meet these requirements.

CW Bearing spindle bearings are single row angular contact ball bearings which support thrust loads in one direction. At very high speeds, they can simultaneously absorb high radial forces and single direction axial forces. Spindle bearings have one open shoulder on the outer ring as standard and this design permits the use of a higher number of balls and thus a higher load rating. The addition of a window cage maximises the bearing's speed limit. Spindle bearings need at least one counterpart bearing so that a system is preloaded, making the entire system free of clearance. In terms of the design, running accuracy and the materials used, CW Bearing spindle bearings deliver the highest speeds and highest load ratings, while requiring the minimum of maintenance. CW Bearing spindle bearings are produced in precision classes P4, P4S and P2.



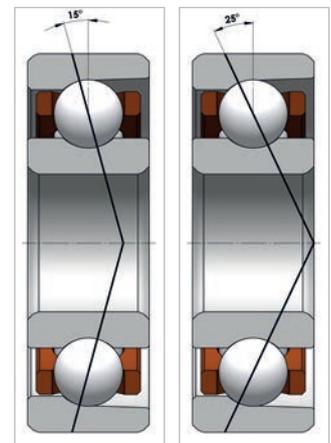
Open spindle bearing.



Spindle bearing with seals made of FKM on both sides.

Bearing Specifications:

- High nitrogen steel rings (X30CrMoN5-1) for excellent corrosion resistance.
- Ceramic (Si3N4) ball versions ensure low wear and high-speed capability.
- Multiple preload options.
- Reliable operation with a maximised load rating.
- Extensive high-performance lubricant range, suitable for all applications and industries.
- Non-contact fluororubber (FKM) seals as an option on both allow use at high temperatures while minimising friction and wear.



15° & 25° contact angles are available.

About CW Bearing

CW Bearing is a global company with production sites in the US, China and Germany. It's largest subsidiary, CW Bearing GmbH, is headquartered in Hamburg and is a leading manufacturer of high precision ball bearings. CW Bearing operates across Europe and South America, providing engineering, manufacturing, sales, logistics and technical service from multiple locations. State-of-the-art production and testing facilities are based in the company's 'Quick Centre' in Kürnach, Germany.

For more information on our products or to discuss your bearing requirements, please contact our experienced Sales & Engineering Specialists.

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