

HIGH PERFORMANCE STAINLESS STEEL

Applications

Dental
Medical
Industrial



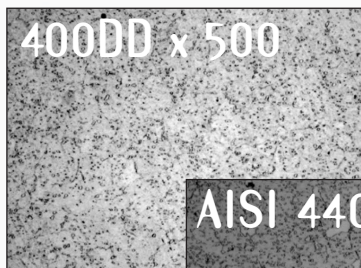
Enhanced operational performance and lower noise characteristics

NHBB's ultra-precision bearings continue to provide superior performance through optimum material properties—the patented 400 series martensitic stainless steel. Combining the best characteristics of conventional bearing alloys AISI 440C and AISI 52100, the 400 series is characterized by small, evenly dispersed primary carbides, which assures improved race finishes and lower bearing operating noise.

Extensive historical research and on-going testing have determined that the 400 series martensitic steel reduces vibration levels and extends bearing life over 440C stainless steel. In addition, the 400 series retains the corrosion resistance and hardness of 440C stainless steel. The material microstructure reveals fine, evenly distributed carbides (under 10 micrometers in size), resulting in lower vibration levels and longer wear resistance than 440C stainless steel.

Patented by Minebea Co., Ltd (NHBB's parent company), the 400 series improved grade of stainless steel raises high-speed specialty bearing performance to a superior level. Please consult with us early in your design phase to learn about our latest developments in bearing technology.

SS-440C rings & balls (traditional offering, phased out for select sizes)
YY-440C HIP rings & balls (discontinued for all production sizes)
DS-400 series rings & 440C balls (limited phase-in as a production standard)



Advantages

- Lower noise generation
- Decreased vibration levels
- Enhanced hardness
- Corrosion resistance
- Fatigue resistance



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