**Supplementary Materials**

**Improved mechanical performance and wear behavior of WC-Ni composites with cBN@Ti particles addition**

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**Changchun Lv, et al., *Journal of Materials Research*, Figure S1**



**Figure S1.** Shrinkage displacement of the WNVBT samples and furnace vacuum during sintering with the sintering time.

**Changchun Lv, et al., *Journal of Materials Research*, Figure S2**



**Figure S2**. Schematic of the processing strategy for the WNVBT composites.

**Changchun Lv, et al., *Journal of Materials Research*, Figure S3**



**(a)**

**(b)**

**Figure S3.** The grinding testing system (a) and its schematic diagram (b):

1-Clamp of rock, 2-Rock samples, 3-Cooling liquid, 4-Fixture of the cemented carbides, 5-Cemented carbide cutting tools, 6-Three-jaw chuck, 7-Lathe center.