

1. The quantitative and innovative experimental results should be contained in the Abstract section.

Response:revised.Important data has been added

2. This paper focuses on the low temperature cooling grinding, but the introduction main about the MQL, and little references about the grinding.

The introduction section should be rewritten, the related references are too little in the introduction section, and the references do not be cited in the paper.

Response:revised.Related content has been added

3. The paper provides the properties of LB-2000 vegetable spray cutting oil, but does not offer the properties of PC-621F cutting fluid.

Response:revised.Related content has been added

4. The paper should offer the detailed information and properties of grinding wheel and workpiece material.

Response:revised.Related content has been added

5. In Figure 12, how about the comparison of LB-2000 and PC-621F cutting fluid on the grinding force?

Response:revised.Grinding force calculation was added

6. The calculation process of grinding force should be added in the paper.

Response:revised.Related content has been added

7. There is too little introduction and information about the temperature measurement, and the results analysis about the grinding temperature is too few.

Response:revised.Grinding temperature calculation was added

8. In the whole, the theoretical analysis on the experimental results is too poor, the effect of grinding fluid on the surface roughness also should be added in the paper.

Response:revised.Roughness analysis calculations have been added