**Supplementary Figure**

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|  **Fig. 6.1** Forces applied on workpiece by a single abrasive particle |
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|  |

**Supplementary Table**

**Table 2.1.** Mechanical properties of UHMWPE

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| --- | --- |
| **Properties** | **Magnitude** |
| Impact strength | 150 kJ m-2 |
| Tensile strength | 40 MPa |
| Density | 940 kg m-3 |
| Hardness | 45 HRB |
| Molecular weight | 3×106 g mol-1 |