Title: Influence of Rotary Axis on Tool-Workpiece Loop Compliance for Five-Axis Machine Tools

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Highlights

> A method was described to calculate the tool-workpiece compliance in an arbitrary direction from compliances measured using orthogonal triaxial excitations.
> The tool-workpiece compliance of a five-axis machine tool was evaluated comprehensively using the compliance map.
> The influence of the rotation angle and clamping condition of the tilt axis on the tool-workpiece compliance was clarified.