Fabrication of prototype end mill for ultra-high pressure coolant
supplying from flank surface

Key point are decrease cooling velocity of work material and cutting heat at edge of tool, to prevent fine crystallization.

⇒ As one solution, we prototype a tool that can be supplying ultra-high pressure coolant from the flank side and verify its effect.

Optimization of coolant ejection holes by fluid simulation

Measuring tool life with a tool microscope