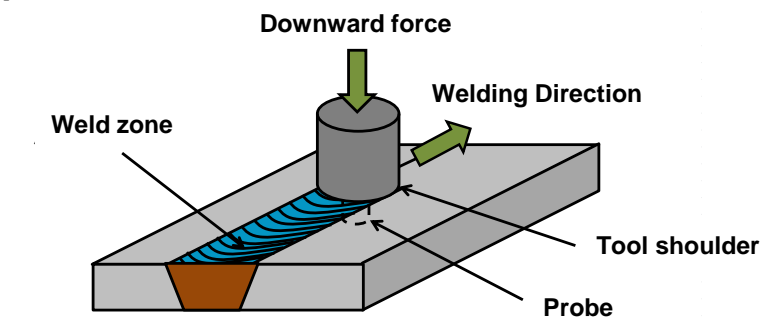
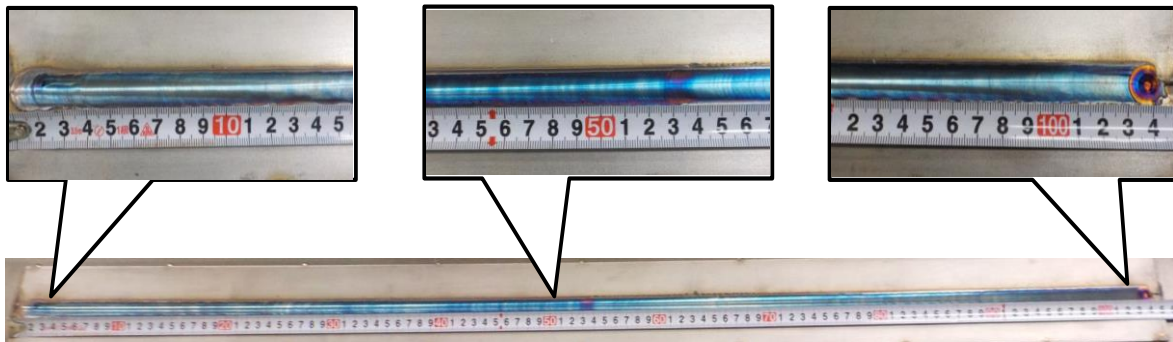


FSW (Friction Stir Welding) is a joining process that use a tool to join two facing workpieces. While high speed rotation tool is pressed into workpieces and traversed along the joint line, the workpieces are joined and intermixed by plastic fluidization.

The cemented carbide for FSW tools, FSW7, has achieved excellent rigidity, wear resistance, oxidation resistance, and seizure resistance under high temperture environment.



Working Process of FSW(Friction Stir Welding)



FSW(Friction Stir Welding) of SUS304

Properties

Grades	Specific Gravity	Hardness (HRA)	Transverse Rupture Strength (GPa)	Fracture Toughness (MPa·m ^{1/2})
FSW7	14.40	88.5	2.7	16

※All data shown are typical values, not guaranteed values.

※We will not compensate any loss and damage caused by using all data.

※We reserve the right to modify the data due to technical progress.

※Joining and Welding Research Institute Osaka University Joint research grade

※Japanese Patent NO. 5441028

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