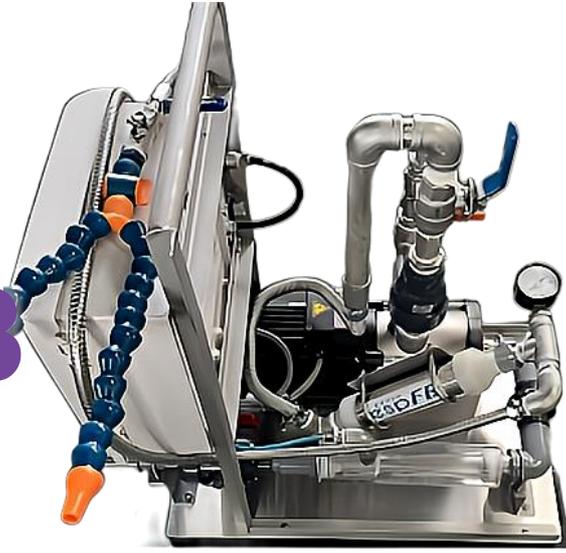


Fine bubble generator

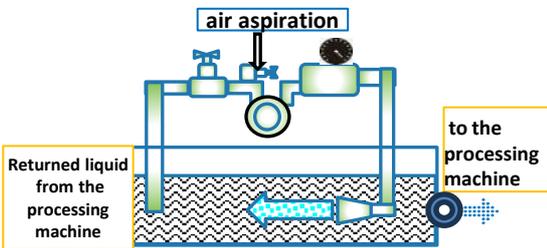
esp FB

Fine bubble (FB) is a general term of micro bubble or nano bubble.

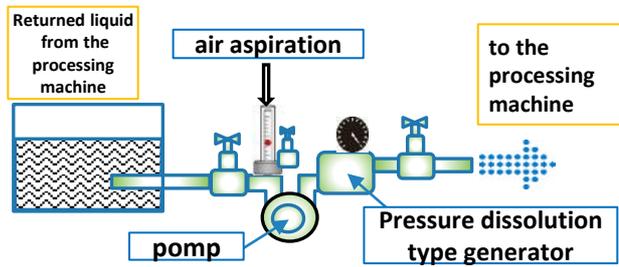


Unlike the conventional method of generating FB, esp FB is an device that uses the FB that comes out of the discharge port of the FB generator as it is.

Existing method



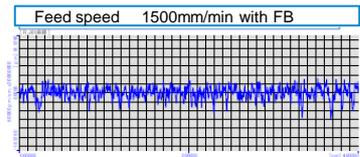
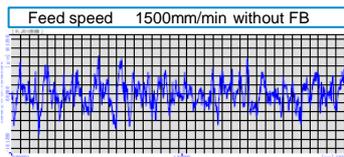
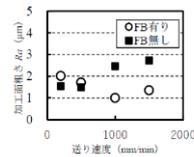
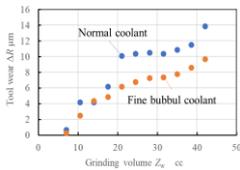
esp FB method



1 Evaluation of espFB processing with conventional water-soluble cutting fluid (alumina ceramic processing)

The result of research collaboration by Ryukoku University and IRCS.

Improved surface roughness of machined surfaces and 30% longer life of diamond tools even with increased productivity



2 Proposal for alternative processing to coolant (processing using alkaline electrolyzed water)

1 Use for Si slice processing
Recovery of unoxidized Si from waste water

2 Use for glass processing
Waste liquid treatment without environmental load is possible

3 Use for metal processing



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