Advanced Manufacturing

Professor Anil K. Srivastava

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- 18 Years Service and finally CTO in TechSolve, USA
- 2003, Received $6,000,000 NIST-ATP Award
- Since 2010 served on the Board of SME/NAMRI
- Fellow: ASM, ASME, SME, and CIRP

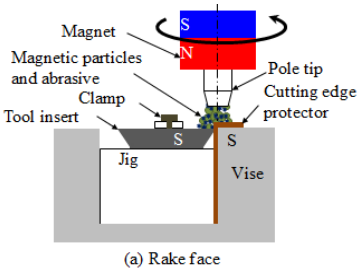
Experience Summary

Dr. Anil Srivastava is Professor, Manufacturing Engineering Department at the University of Texas-Pan American (UTPA), Edinburg, TX. Dr. Srivastava received his Ph.D. degree in Mechanical Engineering from Indian Institute of Technology, Kanpur, India in 1985. In 1988, he moved to McMaster University, in Hamilton, Ontario, Canada and conducted research on 'Intelligent Control of Robotic Grinding Process'. In 1996, he joined Institute of Advanced Manufacturing Science (now known as TechSolve, Inc.) located in Cincinnati, OH, USA. He served TechSolve Inc. for eighteen (18) years in various capacities, finally working as Chief Technology Officer. In 2003, he received six million ($6,000,000) dollar NIST-ATP award to conduct research on 'Intelligent Control and Optimization of Grinding Processes'. In 2009, he again received a $700,000 award from the Department of Defense (DoD) to conduct applied research in grinding area. He has also received grants (~$400,000) from National Science Foundation (NSF) to conduct research in 'Machining of Titanium Alloys'. Dr. Srivastava conducts research and development work in broad area of manufacturing that can be directly transferred to industries in production environment. During his career, he has supported many industries in solving their machining-related production issues.

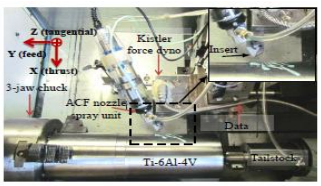
Dr. Srivastava is member of several International Technical Organizations such as ASM International, SME, ASME, and CIRP. Since 2010, he has served on the Board of SME/NAMRI. He has been an invited/keynote speaker internationally and presented work in USA, Brazil, India and China. Dr. Srivastava is also reviewer of technical papers for several International Journals and Proceedings and an editorial board member for the Journal of Manufacturing Technology Research and the International Journal of Nanomanufacturing.

Main topics:

- ***Some Advances in Machining of Titanium (Ti-6Al-4V) Alloy***
  - Application of Atomized Cutting Fluid (ACF) Spray System.
  - Super-finishing of Insert Cutting Edge to provide better cutting tool performance.
- ***Recent Investigations in Grinding of Titanium (Ti-6Al-4V) Alloy Parts Produced by Direct Metal Laser Sintering (DMLS)***
  - Designed Experiments and Process Modeling
  - Safe Grinding Parameters



(a) Rake face



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