



Sreenivasa Institute of Technology and Management Studies (SITAMS)
(Autonomous – NAAC Accredited)
Murukambattu, Chittoor - 517127, Andhra Pradesh.

Date : 12-7-2019

Guest Lecture

On

Development of Cutting Tools with Micro-Holes on PCD Insert



Introduction:

In the context of machining, a cutting tool or cutter is any tool that is used to remove material from the work piece by means of shear deformation. Cutting may be accomplished by single-point or multipoint tools. Single-point tools are used in turning, shaping, planing and similar operations, and remove material by means of one cutting edge. Milling and drilling tools are often multipoint tools. It is a body having teeth or cutting edges on it. Grinding tools are also multipoint tools. Each grain of abrasive functions as a microscopic single-point cutting edge (although of high negative rake angle), and shears a tiny chip.

Cutting tools are often designed with inserts or replaceable tips (tipped tools). In these, the cutting edge consists of a separate piece of material, either brazed, welded or clamped on to the tool body. Common materials for tips include cemented carbide, polycrystalline diamond, and cubic boron nitride. Tools using inserts include milling cutters, tool bits, and saw blades.

Objectives:

The main objective of this guest lecture is to bring the awareness on importance of inserts and to know the current innovations or developments happening in industry on inserts. It also aims to provide the opportunity to students to interact with industry personalities.

Speaker's Details : Mr. B. Devendra Reddy, Design Engineer in Chainheadway , Taiwan.

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Coordinator : Dr. T. Chinna Pamulety, Associate Professor,
Department of Mechanical Engineering, SITAMS.

Date : 12.7.2019

Venue : Conference Hall, SITAMS.

Target Audience : Students of 3rd & 4th year Mechanical Engg., SITAMS.

Organised by : Department of Mechanical Engineering, SITAMS.

Note: Speaker also gave some information on Higher studies (MS) in Tiwan and how to write a scientific paper

Photos of Guest Lecture on Development of Cutting Tools with Micro-Holes on PCD inserts On 12-7-2019 by B. Devendra Reddy, Design engineer, Tiwan

