

INTRODUCTION

Set of Stamping Dies or Press Tools forms a vital, costly and time consuming element in the entire sheet part manufacturing process chain. Die Design defines the product quality, operating economics and productivity of mass manufacturing organization. Not only Stamping Die Design is being inadequately covered in most academic curricula; the coverage is too simplistic, academic and focused more around use of specific CAD and Simulation tools, making it largely a desktop event. It is generally not possible to cover the practical industrial part complexity, desired quality level , cost, project timeline and performance requirements. There are no insights given on why it ends up becoming rather unpredictable labor / skill intensive iterative process, despite advancements in CNC Technology

Keeping this in view, IMTMA is organizing two days class training on Design of stamping dies for sheet metal parts.

FOCUS AREAS

- Formability properties of sheets and how they affect the Die Design and Press selection
- Variables from Presses and Press Lines
- Sheet Metal Component Production Method Plan & Constraints
- Limitations of Simulation
- Dies Features for various operations
- Component / Elements which go in a Die
- Selection of Material for Dies
- Die Manufacturing Process
- Challenges of Die Machining
- Die Proving, Maintenance , Tryout and Buyoff
- Demo on set of Dies for a part
- Defects in sheet parts and how those are related to Dies

KEY TAKE AWAYS

- How to Plan, Monitor and Control a Project Implementation
- Holistic end to end view of total Die Engineering process chain
- Know the required design input
- Know the constraints and performance requirement
- Know the defects and refinement loop
- Get an idea of Die manufacturing process and DFM for Dies
- Know how the Dies are checked
- Industry 4 compatibility for Dies and Presses

PARTICIPATION FEE

Rs. 9500/-
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 380/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

FACULTY

This programme will be conducted by **Mr. Avinash Khare.**

Mr. Avinash Khare is presently working as an Advisor and Consultant Head for IMTMA Pune Technology Centre for last 5 years; he has been designing, developing content and delivering wide range of Training Courses as a Faculty. He is Electrical Engineer by Qualification and he has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D in Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shops, Tool Room Shop Head, Head of Die Design and Champion in Business Excellence. He has taught Instrumentation and Bio Medical Instrumentation at Pune University as part time faculty

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