Manufacturing Technology Training
An IMTMA initiative

Selection of Cutting Tools for Improving Productivity and Cost Reduction in CNC Machining Centres
Date : 11 to 12 July, 2023
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

Milling and hole making operations are an integral part of all metal cutting operations. While using a precision machine tool such as a CNC Machining centre for complex milling and hole making operations, selection of the right cutting tools for the operations is equally critical to producing quality machined parts. Selection of the right cutting tools can result in optimization of cycle time, reduce risks of errors in machining, manage tool costs better and result in the production of a high quality part.

Keeping this in view, IMTMA is organising an online training on Selection of Cutting Tools For Improving Productivity And Cost Reduction In CNC Machining.

FOCUS AREAS

- Mechanics of Chip Formation and 5 Critical Features of a Cutting Tool
- Options for selecting appropriate Cutting Tool Material
- Different Cutters Construction and their Features. Cutter selection criteria inserts nomenclature
- Common Milling Operations & 6 important Operational Strategies
- Selection and application of Inserted Milling Cutters, & Solid carbide Endmills
- Why & how drilling operations is most challenging
- Using Drill nomenclature and type of solid carbide drills
- Drilling Strategies with Solid carbide drills
- When & where Modular & Inserted drills offer superior benefits
- Drill Holding, Fixtures and Cutting Fluids - Key to Success

KEY TAKE AWAYS

At the end of the program, the participant shall be able to:

- Match the various milling/drilling operations with appropriate tool selection

- Selection of Right tool material best suitable for the part material

- Understand the various tool failures & take suitable advance corrective actions

- TScientific approach for avoiding certain type of failures, and for balance, take actions to delay the failure

- Independently take actions to enhance shop output and or reduce CPC

- Reduction in internal process scraps or reworks

- Spread the course learning to other colleagues

- Understand the impact of changes in operating Conditions on Tool Life and productivity

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

The program will be conducted by **Mr.Pradeep Kumar S**

Pradeep Kumar is a Mechanical Engineer who started his career at NTTF, Bengaluru as a Production Engineer in the sheet metal and mould shop for a couple of years.He then moved on to Kennametal India limited, a Cutting Tool manufacturing company. In his 32 years, he was in sales of Cutting tools, Forming tools and Mining tools across India for 22 years.
In the last 10 years, he was a APAC Head of Kennametal Knowledge Center, he and his team were involved in training over 20,000 executives in the manufacturing & cutting tool industry.

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.