Manufacturing Technology Training
An IMTMA initiative

Gear Manufacturing - Hobbing and Shaping Processes
Date : 29 to 30 April, 2025
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

The Automotive, Agricultural, Defence and Railway industry is undergoing continuous change due to increased customer demand as well as improvement in production norms. Gears and Gear drives are an important component of all kinds of vehicles, machine tools, aircrafts, household appliances as well as a broad variety of industrial equipment, which play key role in transmission of power. Gear manufacturing is a complex activity, involving multiple manufacturing processes. Hence a good understanding about the various gears manufacturing processes and controlling of the parameters is essential, in order to meet the growing demands for better productivity and quality of gears.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a training programme on "**Gear Manufacturing – Hobbing and Shaping Processes**". The topics will covered in depth with focus on actual case studies.

FOCUS AREAS

• Introduction to Gear Terminology

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• Gear Manufacturing Processes

• Gear Hobbing

- Different methods of hobbing
- Process parameters
- Work set up and Hob set up methods
- Process optimization and productivity improvement
- Cutting Tools required for hobbing
- Industry Examples

• Gear Shaping

- Working Principle
- Different methods of shaping
- Process parameters
- Work set up and Cutter set up methods
- Process optimization and productivity improvement
- Cutting Tools for Shaping
- Industry Examples

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to:

- Gain an overview of gear hobbing and gear shaping manufacturing processes
- Understand process parameters & optimize gear manufacturing processes for hobbing and shaping operations.

PARTICIPATION FEE

Rs. 10450/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 415/-
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. Vishwajit Kothari,** a Mechanical Engineer by profession, has more than 25 Years of experience in the machine tool industry and in gear manufacturing. He has worked with organisations like Premier Ltd., Pune, a pioneer and a renowned machine tool company in India since 1944.

For Registration Contact

Nagraj Hamilpure
Programme Coordinator
9881616902
n.hamilpure@imtma.in
Back End Operations
9742626488
enquiry@imtmablr.com

Contact Address

INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION
12/5, D-1 Block, MIDC, Chinchwad,
Pune-411019
Board Line : +91 7066030531 / 532

imtmatrainning.67038796@hdfcbank

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.