



Last date for registration 09 December 2025

## INTRODUCTION

**The LM guides & Ball screws** is one of the most commonly used machine element which provides highly reliability, high speeds, higher precision, very low friction, easy replaceability and easy maintenance. These are used in building equipment in all fields of engineering and machine tools. Hence, there is a need for knowhow in types of LM guides and ball screws, selection, design and its assembly.

## FOCUS AREAS

- Types and accuracy standards of LM guides
- Selection criteria for LM guides - Design parameters
- Design Fundamentals of LM guides with calculation examples - Load, service life, etc.,
- Procedure for proper mounting of LM rails and LM Blocks
- Ball screws - Types and pre loading methods
- Selection criteria for Ball screws
- Design Fundamentals of ball screws with calculation examples - Load and Speed limitation
- Participants can bring their issues on the topic to have discussion in the forum
- Case studies will be discussed during the programme by faculty

## KEY TAKE AWAYS

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

- Acquire knowledge about LM guides & ball screws
- Basic analysis of application data
- Selection & basic design know-how
- Basic assembly know-how

## 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**

## PARTICIPANT PROFILE

This programme will benefit Managers, Engineers & Supervisors engaged in Design, Production, Manufacturing, Maintenance, Machine Tool assembly and other related functions from Automobile & auto ancillaries, Material Handling, Packaging Industry, Machine Tools, Automation and Industrial Machinery where such transmission motion elements are used.

## FACULTY

This programme will be addressed by **Mr. S K Gupta**, Former Asst. General Manager, Machine Design & Business Development, Tata Motors Machine tools division, Pune.

**Mr. Gupta** is an industry expert with over 37 years of rich experience in Design & Development of General purpose Machine & SPMs. The programme will be highly interactive where participants can solicit feedback on specific technical issues from the expert faculty.

### For Registration Contact

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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.