



Last date for registration 05 June 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 of Linear Motion Guide ways
- Applications of LM guides
- Accuracies and types of loads
- Selection criteria of LM guides for specific applications
- Validation of LM guides for expected life w.r.t selected LMG and loads
- Mounting methods & alignments LM guides
- Types of Ball screws and their applications
- Application of ball screws
- Accuracies of ball screws
- Ball screw analysis for load torque, buckling , critical speed, rated torque, accelerated torque and inertia.
- Selection criteria of Ball screw for a specific application.
- Mounting methods and alignment of Ball screw
- Assembly procedure of Ball screw and LM Guides
- Ball screw alignment w.r.t LM Guides
- Trouble shooting of ball screws & LM Guides

## 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.