Manufacturing Technology Training
An IMTMA initiative

Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance
Date : 16 to 18 December, 2025
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

Maintenance of spindles in metal cutting or industrial machinery is a critical function of a maintenance engineer. Technicians maintaining them typically require special diagnostic tools and intense technical training. Often component deviations can be traced to faulty spindles. Spindle maintenance requires a thorough knowledge of bearing application, lubrication, assembly tools and techniques.

Keeping this in view, IMTMA is organizing a training on **"Care for machine tool spindles-Systematic approach for spindle maintenance".**

FOCUS AREAS

- Bearing types & their application in metal working and industrial machinery
- Bearing lubrication systems
- Spindle failure & reconditioning
- Tools, tackles & assembly techniques
- Testing of assembled spindle units
- Bearing failure
- Spindle bearing preloading
- Preventive maintenance of spindles
- Why do spindles fail? - Case studies and examples
- Live demo of Spindle dismantling, testing and assembly

KEY TAKE AWAYS

- Identify and correct spindle problems before any catastrophic failure
- Plan periodic predictive maintenance and inspection
- Decrease downtime and save money on spindle repairs
- Learn through live demo of spindle dismantling, testing and assembly

PARTICIPATION FEE

Rs. 6999/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 280/-
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. Maqsood A Khallaq - Industrialist.**

Mr. Maqsood Khallaq is the proprietor of the Excel Design Centre and he previously worked as the DGM (Designs) at HMT. He has 3 decades of Design experience. His design career began at HMT in 1970, and he chose to leave HMT through VRS in 1998. He established the Excel Design Centre in 1998 to provide design solutions to various machine tools manufacturers and users. He has provided numerous designs of GPMs, SPMs, fixtures, and customized solutions to various machine tool manufacturers and users.

He is a Managing Partner at XL CNC Machines, located in Peenya, Bangalore, where they manufacture the various products.

He has served as a Guest Faculty at IMTMA for various training programs, including hands-on training, such as SPM/GPM Design Course, Fixture Design Course, Spindle Design Course, Gearbox Design Course, Ball Screws/LM Guideways Course, and Design and Drafting Course.

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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.