

INTRODUCTION

Servo Technology has been conventionally been a part of CNC Machines. But with development of General Purpose Servos, now this technology is spreading very rapidly and is used widely in various applications of Motion Control across many kinds of Industrial Machinery. Servo is fast replacing conventional motion systems like Oil Hydraulic / VFD controlled Motors / Pneumatic etc. due to its highly intelligent features and total programmability. This Program gives an overview of Servo Motors technology, in usage of Motion Control in Industrial Machines and Applications. This program will cover major aspects of Servo Technology and general purpose Servos.

Keeping this in mind, IMTMA is conducting an online program on Servo technology for Industrial motion control.

FOCUS AREAS

- Requirement of servo motion in automated controls
- Torque speed characteristics
- Servo control system
- Servo System Parts
- Specifications of Servo
- Types of Motions - Position Mode / Speed Mode / Torque Mode
- Sizing of servo for specific applications
- Homing concepts of last motion
- Macro Level understanding of Servo Sizing, including "Load" for different applications
- Comparison of general purpose servo and CNC servo
- Some Intelligent Applications

KEY TAKE AWAYS

- Macro Level Understanding of Servo Technology
- Role of Servo Technology in Today's intelligent and High Speed Motion Controls in Machines
- Know about usage of servo for motion control in Industrial machines
- Know about various application of Servo
- Demonstration on TIA (total integrated automation) portal on programming of servo system, communication with Profinet protocols, parameterization of servo drive, setting of soft limits of the servo drive, configuration of interrupt inputs to a servo drive, commissioning & diagnosis of servo drive, checking the system with physical servo drive

FEE PER PARTICIPANT (PER LOGIN)

Rs. 7500/-

+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 300/-

Overseas Participants

Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

FACULTY

This programme is conducted by **Mr. Anil Purohit** and **Mr. B. Muralidhar**.

Mr Anil Purohit is an Electrical engineer with more than 40 years Industrial Experience in field of Servo control, Machine Control Systems, Automation Products & Solutions, Machines & Test Rigs building, Intelligent and High Speed Motion Controls with Servo, PLC / VFD Technologies for Automation, Machine / Test Rigs Building, Mechatronics / Machine Kinematics. Presently he is working as Director at Leonardo Automation India Pvt Ltd and ETA Technology Pvt. Ltd. Bangalore.

Mr. B Murlidhar, He is an AMIE from Institute of Engineers and Industrial experience for 38 years in Design and Development of electrical/electronic controls for various machine tools at HMT Machine Tools Ltd Bangalore. He started his career with the Design of Contactor logic for Cylindrical Grinding machines, Surface grinders, Gear shapers, SPMs, etc. With the evolution of PLCs, Changed contactor logic to PLCs and have used almost all Siemens PLCs available as on date on various machine tools including SSMs & SPMs. In 1985, CNC cylindrical Grinding machine was developed using the Primo S system. Subsequently, many CNC machines like Cylindrical Grinders, Surface grinders, Gear Hobbers, Gear Shappers, SPMs, etc., were developed using CNC systems like Sinumerik, Hsinumerik (after HMT got collaboration from Siemens), Siemens 802D, Siemens 810D, Siemens 840D, Fanuc (MD & TD) systems, 828D, 840Dsl and Fanuc0i. Apart from above, Assembly co-ordination, Prove out and commissioning at customer's end were our responsibilities.

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