Advanced concepts of GD&T (GD&T as per ASME Y14.5 2009)

Date: 26 - 27 June 2018 @ Chinchwad, PUNE

The Geometric Dimensioning and Tolerancing systems have been getting evolved over the last 20 plus years continuously. Globalization in various segments of engineering has been instrumental in defining the details and implementation. ASME has revised and improvised the definitions in the last release of year 2009 with examples in which almost all the readers find their own parallels.

However, thorough understanding is a must across the design, manufacturing and quality personnel for implementing GD&T and realizing the true benefits in terms of interchangeability, reduced cost, reduced rework, simplified inspection & gauging etc. Keeping this in view, Indian Machine Tool Manufacturers’ Association (IMTMA) is organizing a 2 days programme on Advanced concepts of GD&T on 26 - 27 June 2018 at Pune.

The program will be focusing on application and interpretation of GD&T interfaced with interesting real examples which the participants from various industries will be able to identify with. Participants can seek solutions from the expert faculty for discussing and solving their specific issues in design / product development.

FOCUS AREAS
- Definitions of Terms and Symbols, MMB, LMB, RMB, DRF, Rule#1 or Taylor principle
- Definition of datums, Selection of datums based on design / manufacturing / Inspection requirements.
- Wooden/plastic prototypes: Part/assy prototypes used for effective training.
- Brief explanation five groups of tolerances and their hierarchy
- MMB, LMB, RMB and translation concepts
- Zero tolerance and application (straightness - axis, orientation and position)
- Virtual conditions, IB and CB calculations and applications
- Paper gauge concept, and Verification of positional tolerances
- Functional dimensioning and Functional gauge design
- Composite position and profile tolerances, PLTF and PRZTF
- Floating and fixed fastener assy
- Axis controls by position, run out, concentricity and profile, case studies
- Verification of effect of datum modifiers / datum shift - using paper gauge
- Exercises throughout the workshop, over 25 nos.
- Live Demo of Measuring GD&T parameters

Key Take Aways
After undergoing the GD&T workshop, the participants would be able to:
1. Distinguish between RFS, MMC and LMC conditions with practical applications
2. Do position verification: By calculation, paper gauge, functional gauge and CMM
3. Apply new concepts, MMB, LMB, RMB, and translation, and functional gauge design
4. Understand advanced concepts viz. Zero, composite position and profile tolerancing
5. Selection of axis controls position, run, profile and concentricity, case studies

Pre requisite: This will be an advanced level training programme. Basic Knowledge of Engineering Drawing, Limits/Fits/Tolerances and GD&T principles will be a pre requisite for this programme. Participants need to complete a precourse questionnaire upon applying for registration.

Participants are encouraged to bring their drawings / designs for discussion and problem solving.

Faculty
This programme will be conducted by Mr. Srinivas B, Industry expert in Product design and development. Mr. Srinivas has more than 23 years of rich experience in Aerospace and Auto industries in leadership roles within India and international locations. He is GDTP Senior professional, certified by ASME. He has worked on several re-engineering projects in both product and tool design areas, which resulted in lower weights & costs, ease of manufacturing & assembly while maintaining design intent. He has thorough knowledge of various Quality Standards for enhancing the operational efficiency such as Six Sigma, ISO9001, TS16949, etc., and is a Six Sigma green belt trained and certified by Cummins.

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.

FEE: The stipulated fee can be paid online by clicking on “Register and Pay online” button and using the secured HDFC payment gateway. Upon successful registration and payment, a separate registration and payment confirmation will be sent to the nominating authority mail id of confirming the registration and CB payment details. Alternatively, a Demand Draft of an amount per person in favour of ‘Indian Machine Tool Manufacturers’ Association’ payable at Pune can be sent to the programme coordinator at the address mentioned in the brochure.

About IMTMA:
Indian Machine Tool Manufacturers’ Association (IMTMA) is the single point of contact for the machine tool industry in India. The Association has over the years transformed itself to focusing beyond, to focus on issues of productivity, quality, technology, new product development, design, customer satisfaction, etc. for enhancing competitiveness of the industry in both domestic and Foreign markets. IMTMA has established a state-of-art facility at IMTMA Technology Centre, PIEC, Bangalore, India. IMTMA offers around 100 programmes over 80 Topics for the Industry. It also conducts a comprehensive ‘Finishing School’ programme in Production Engineering for fresh engineers. It has delivered over 89000 Man days programmes in PRECISION, QUALITY, RELIABILITY, DESIGN, AUTOMATION, MAINTENANCE AND MANUFACTURING.

IMTMA TRAINING INITIATIVE
ADVANCED LEVEL
DESIGN SERIES

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Last date for registration : 19 June 2018

Participation Fee (Non Resident - 2 days)
IMTMA Members & Micro Industries
Rs. 10000/-
+ 18% GST per participant
IMTMA Non - Members
Rs. 11000/-
+ 16% GST per participant

Group Concession:
10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company (subject to availability of seats)

Special concession available for Faculty & Students from engineering colleges

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INDIAN MACHINE TOOL MANUFACTURERS’ ASSOCIATION
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Participants Feedback
Very well managed programme. Learned very important aspects of advanced concepts in GD&T.

Mr. Ashok Kumar, Manager Quality, Indo US MIM Tec Pvt. Ltd.

It was a good learning session - Mr. Sanjeevaradreddi B H, Sr. Engineer, Sansera Engg. Pvt. Ltd.

Industries Participated
The previous programmes have been well received by delegates from Avasarala Technologies, Craftsman Automation, Indo-US MIM Tec., Kennametal India, Sansera Engineering, TVS Motor, Walvoll Fluid Power India, etc.

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