



Height Master

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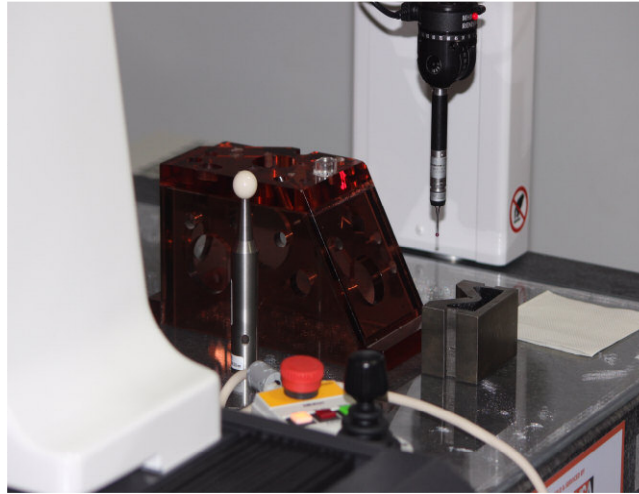
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CNC-Coordinate Measuring Machine

PSGCNCE
Organizes
One-day Workshop
on
Coordinate Metrology

11.08.2018



Conducted by

DEPARTMENT OF PRODUCTION ENGINEERING
PSG COLLEGE OF TECHNOLOGY
COIMBATORE- 641 004

The College

PSG College of Technology, a premier institution for engineering education in India, started in 1951 has developed into a centre for advanced studies and research in several areas of engineering, technology, applied sciences and management. The college is autonomous since 1978 and is certificated by ISO for standards. The laboratories, workshops and library of the college are all well equipped with modern facilities and are of world class standards.

Metrology Laboratory

The metrology laboratory in Department of Production Engineering has been set up with the aim of catering to the needs of researchers and industry. With this aim this laboratory is being upgraded every year with the state of the art equipments. This workshop is designed to update practicing engineers from industry, faculty and students from engineering colleges in the latest developments in metrology.

Coordinate Measuring Machine

Mass Production and precision manufacturing demands measuring instruments with capability to provide measurements which are precise and accurate. They must be capable of measuring the features of components with less labour and minimum time. This requires the power of software which is not in built in most of the conventional instruments. Coordinate Measuring Machine (CMM) is one of such powerful measuring machines incorporated with software which can measure the dimension of intricate shapes and Geometric Dimensioning & Tolerancing (GD&T) features fulfilling the above requirements. Industries in manufacturing sector have already started using CMMs in large number. Use of CMM for the above purpose requires a complete knowledge on the operation of CMM, selection of right probe for a particular application, GD&T features. Keeping this in mind, this workshop is conducted to train the students of mechanical sciences, faculty members and practicing engineers on the above mentioned area.

Height Master

In industries used for measuring lengths in the form of external, internal, step, height, depth and distance dimensions. The automatic microprocessor assisted correction makes even more accurate: Correction

values memorized in the instrument compensate for systematic errors when measuring lengths. It will facilitate the students, faculty and practicing engineers to learn the latest practices in dimensional metrology.

Objectives

The main objectives of this programme are to

- Create awareness among manufacturing engineers on the latest developments in coordinate metrology and its applications in dimensional measurement.
- Highlight the features and applications of coordinate measuring machine.
- Make participants to understand basic GD &T features and able to do probe calibration.
- Enable the participants operate CNC CMM and demonstrate the usage of its software for dimensional measurement.
- Train the participants to measure various geometric features and generate report
- Demonstrate the various features height master and its application.

Course Coverage

- Introduction to CMM
- Functions and system components of CMM
- Probe data management
- Modes of Operation
- Geometric dimensioning and tolerance
- Measuring Entities
- Results and Report Generation
- Dimensional metrology using height master

Registration

Filled up registration forms are to be submitted along with the DD for registration fee drawn in favour of "PSGCNCE" payable at Coimbatore.

Registration fee (per delegate):

Delegates from Industries : Rs.2,400/-

Faculty & Students of Engineering Colleges* : Rs 1,000/-

(Inclusive of GST)

Registration fee includes course material, tea and working lunch.

*Students have to produce a bona fide certificate.

Limited seats only. Rush for early registration.

One-day Workshop

on

Coordinate Metrology

11.08.2018

(Timings: 09.00 am – 4.00 pm)

Registration Form

Name (s) : _____

Designation : _____
Organisation : _____
Address : _____

Phone : _____
(with code) _____
Fax : _____
E - Mail : _____

A Demand Draft* is enclosed for Rs _____
No _____ Dated _____

(* Drawn in favour of "PSGCNCE" payable at **Coimbatore**)

Date: _____ Signature: _____

We are sponsoring the above delegate(s) to attend the programme.

Date: _____

Signature: _____

Designation: _____