

JANUARY 2021

VISION:

To produce effective. quality and responsible

mechanical engineering graduates.

MISSION: **Broad Education:** To provide broad education in Mechanical Engineering with analytical and research abilities. encouraging culture of endless

industrial need and social issues.

and learning resources with well experienced faculty members.

Teaching & Learning Process: To share knowledge with our students through educational programs & all of society through disseminating our research findings in scholarly publications, presentations, patents, entrepreneurship and technology transfer

K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

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An Autonomous Institution

Approved by AICTE, New Delhi & Affiliated to Anna University Chennai Accredited with 'A+' grade by NAAC, ISO 9001:2015 Certified Institution

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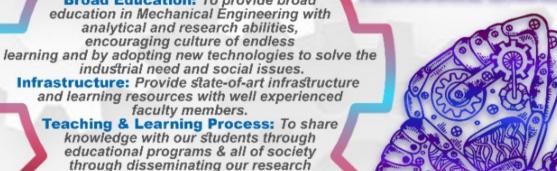
NEWS LETTER

DEPARTMENT

MECHANICAL ENGINEERING



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FINE BORING BAR

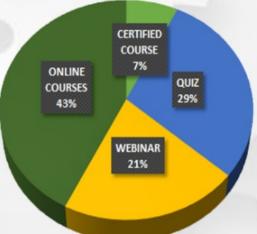
DEFINITION

Fine boring or Single-edge boring is used for finishing operations with small cutting depths when close tolerance (IT6 to IT8) or high quality surface finish is required. The diameter of fine boring tool can be adjusted within microns with a high precision mechanism.

PATENT: FINE ADJUSTABLE BORING BAR

APPLICATION NO:201641006702

PATENT NO: 354611



CRYOGENIC TREATMENT

Cryogenic treatment is the process of cooling materials to cryogenic temperature temporarily to improve their material properties at room temperature. This is distinct from cooling materials down to cryogenic temperature to take advantage of phenomena such as superconductivity that only occur at cryogenic temperature. Cryogenic treatment, sometimes also referred to as deep cryogenic treatment, it is a best alternate to other material processing steps such as heat treatment, quenching and cold work. Cryogenic treatment generally occurs at roughly 77 K (liquid nitrogen temperature). Graph shows a typical time versus temperature curve for cryogenic treatment. Some processes use dry ice temperature (189 K) which, while above the nominal 120 K limit of cryogenics, are also sometimes referred to as cryogenic treatment.

MOHAN RAJ LMEB 17135 (IV MECH A)