Mame a Safigor Almod chaudling. PRN : 5064192018116251000.
Roll No: 06
Branch: Mechanical Engineering. Semister : 7 Assignant 8: Demanstration wire form EDM can machine mything that is electrically. Lordness, for relative common materials Such as steel , aluminium, copper & graphite. The wire does not touch the system (workprece) so there is no physical pressure imported on the wook piece compared to grinding. wheels & milling cutters. The accuracy of surface finish the 1 gob is extremely predictable. The EDM process leaves no residual burss on the workpiece, which reduces or eliminates the need for Subsequent finighing Operations .. Machine as a finished port, without the need of secondry. geration. It's a one step process.

P7 NO 1 12 Embstantical increase in productivity. is achieved since the machine Principles Machining wine Electrical discharge The gweet theony. 8 wire . EDM 1 of the vertice ED mertiale EDM process. wire EDM, the torduction materials use machined with Series 8 · electrical discurages (parks) & that ost produce of .

between an accurately positioned Sparks moring. wire (the electrode) & the workpiece. trang books can be observed. an One time. Thiss is because. actual. discharges can occuse more other one hudged actual. thousand times per second with discharge . Sparts lasting in the Second or less. The mage of volume of mental removed Eduring this Bloom ported of Spark of discharge depends on the. I desired cutting. Speed & the Surface finish o organized. The heat of electrical spork, estimated at around. 15000 °F to 21000 °F, evodes aways a tiney The same of the sa

Py NO : 03 602 abathement & reduction of The development of renewable tech nologas educing natice of resourceds indictating land, forest, minerals water eco systems Details wind from . is located at . Phate rahmantel village. et state of mahashtrah 300 the location has been shorten basel Durage wind speed, & wind Just 75 20 4 tompho 1 gust is 25.9 tmph located in the North - western, past of Mahrashtrah State. The Jeographical locta atron as follows. I the project actions increased efficiency Interred weight distribution

all build the operator to use become I familiar with it quitely. Py Not of Beg Besides expluting. NC data for positi on my of sets, tagering graling. when using sotation of mirst image Jor axis The control also compensates for ase Pitch errors compansation axes drives, to ensure high accuracy positioning the mechine has multiple co-ordanate systems. & jobs can be programmed in absolute - 08 incremental modes gaving, ratifable programming time Multiple gobs can be set-up on the work table while staring the seperate reference poits or (. co-ordinate registers the numerical control offers the capabilities of exit d'exchange & gassist programs 2. Power Supply. Most machines have power supply.
Total to cut over twenty. Equire

faster or slower speeds are abtained depending on the in work piece Material port thickness wire, diameter type of wire nazze position, I functing condition & required part accuracy.

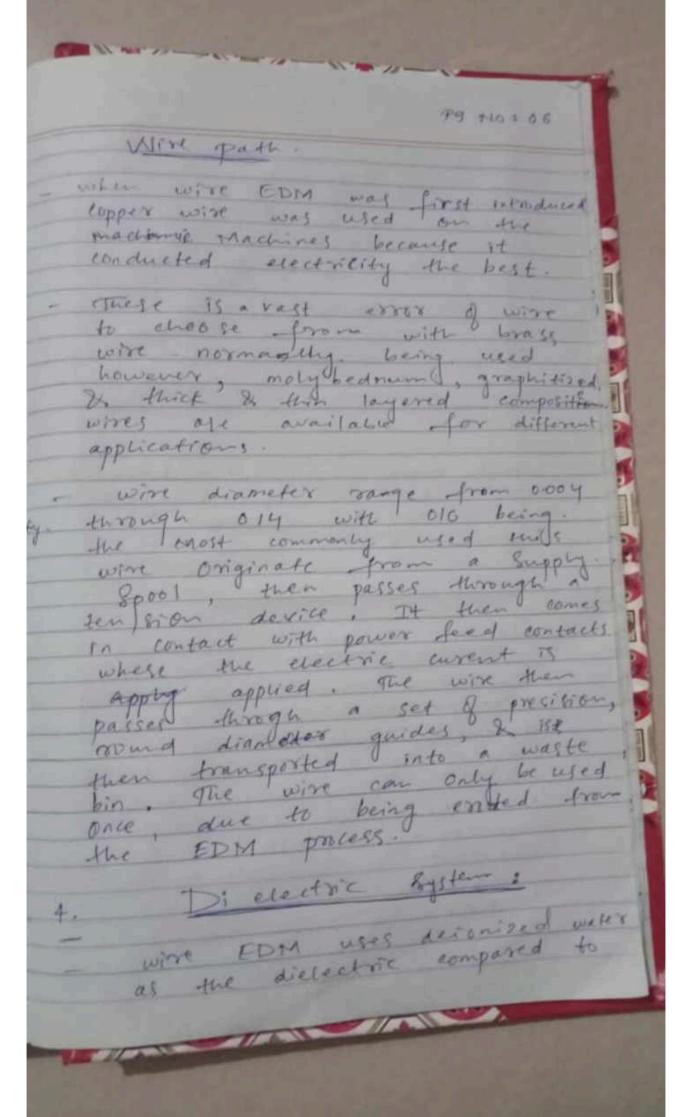
Adaptive control is yet another emprovement where high speed circuitry has improved the speed circuitry has improved the speed circuitry section time of the speed to the speed motors & changes to the power.

with these improved aapability, wese breakage is reduced to a minimum, making today is machine fax more better to us

3. Mechanical Section.

Table Movement.

Machine merement is accomplished with pricision lead screws with recirculating boy bearings on all exes that I ask drivers by Ac motors. The machines possition is cheeted & any errors or bactlash are correlated by pitch error compansation that is permanently. Stored in the computers of Memory.



writing EDM'S that use oil The discostrical System methods to water reservoir fortration system deignization system 2, makery abiller unit . During cutting, the dirty wares is drained into the unfiltered Side of the dielectric reservoir I fillered through a gapor filter, & returned to the clean Side of the dietectric tank. Following Filtration, the clear water of is masured for conductivity & it required passes through a ressell that cotains a mixed bed of orion & cotains beads. this mixed bed resin (the son exchange unit) control the resistivity of the water to set values auto mutically. The clear water fills the wear side of the dielectric reservoir & proceed to the cutting area. Used water is rained & returned by to the unfiltered side of the dielectric reservoir to complete the eyele

P9 NO 108

A water chiller is provoided as standard proqui equipment to keep the dielectric, workpier; process the chips from the cutting that is being eroded, gradual changes the water conductivity.

Lesistivity lavels of the water age set according to the culting requirements of the workpine material being machines.

Conclusion :

of applications that are continuing to grow.