Automation in manufacturity 1) Automation Sixed programmable Antomation
3) elistorical developments spusible Antomation
3) elistorical developments of his west went of his wood works for oduction wells 3) sutro to cremachines u) Des. when was to deal with 6) Relative Morits and demerits w le negaritand in antimes c a) conc o elements e murits, de-murits fixed Automation Axed Automation ·) sequence of operating or processing that is I have to be carried out is given by the equipment conjug -) sequence of operations -> integnated into equipment shigh volume of production is required y production voll of fixed automation is high Featury -> might not production volume -> Relow Ingressibility in product variety - high intial imment for coston rengineered parts. > equivent is designed to handle various product configs.

Usually in order to change the sequence of operations by with the help of worked program - wow and medium volumes --) for each new baths a new control program. is loaded. fearings > & cower production nomines? evoluted! I more suitable jon bouth production > Flexibility & changes in products configuration eg: NC maurin tools. Plusible Antomodion I designed to reduced time taken for past manyfacturing > canderign different products the with no time war - Used in Interconnecting works stations (material handling

and storage systems. Juign investment for a custom engineering system I plexibility to deal with product design change -) continous production of variables mistures of products. of a stangerts , with the walls Automation Disordvoutery Adv 1. Entill innestment very high 1. high production veitus 2. reguligh skilled labour 3. Indirect cost for RSD KM 2. Wystru 3. human errors eliminated and a mayoundine part to new mayond and CNC sadvarried NC) testest contral unit is a dedicated micro computer. enstead of hard - world controller. -> Jeanners like > Migh speidoperation -> large memories applies turbo simproved iservos of proposab di transcripa a diagram device | part program Displayouit MODINET POWER DE mined surve suit felt for bother aystom Feedback system , position verbuity Mounting 1 entertures at your term for your at anyone con devide as therent broams has not a son where now exain interconnecting moves stations forceterial conduit

computer Numerical system	
advacated N	
es micro computer not a controller	6-12
punerts	0-
) suput device - part program is entered into the enc	
, serial communication	
· communication.	
marine control unit	1
Lo ef V Rets Data from mumory & generate, signales of CPV	
, ALU - performent arithmatic and logical sopers	ution,
. Int. Access tremory - holds data and programs spamponairy	
y ording system	. 19
s) feldbalk devices.	
6) Display unit	0408
MCU -> Machine control out	31.44
CPU	
+ Acoutrol section + RAM	
- Santermediate Accessmenony	
distribution of an a	
In/ out Interface between machine operator supplients of cur	sullo.
establishes connection between s components of eve	3-30-202
MA NOTE OF THE PARTY OF THE PAR	
mounine control tools	
	designa
vourious oxes -> 2942 AB, C & 8 The ares -> B at the digiven RPM	
The Con	
sequence controls por auxilary functions	

achorism landing driving system in transmiss of the + amplifier inauto A drive motors + > 6 suctors - DC servo motors -> en stepper motors - s wines motor Feedback Devices to for accuracy -s position & speed values of axes med to be continously updated . ALU - herformes ar premare and post pisplay unit so current status of operation eg + spindle RAM to position of machine suide displays warnings, simulations etc. Machine took - spainty whole out + 5 maurine stides -> maunine table -> the driving lead seven, ball seven. disado of che Adv of we nacepter species Scarrippinents 8 CASC Seg. Rat pro Bons wover Western the ones of Basigni - HARD WONDER JUST YO