- D'brineral took used in facing, planing, plain turning and step turning
 - -) lathe machine
 - → three jaw chuck
 - chuckkey / spanner
 - → Vernier Calliper
 - > H.S.s single point butting tool
 - -> cleaning brush
 - -) stul rulu

general took used in milling process:

- -) base pan hamme
- -> cleaning brush
- -> vernier height gange & vernier Calliper
- -> milling cutter
- -> horizontal milling machine
- -> double ended spanner
 - -> Spirit Leid

general took used in dilling, broaching, reaming & terpping:

- -) dill lit tool
- -> tupping tool

- -> vernier Callyieu
- -> pitch gauge
- -) chuck key
- tool post key
- -> cleaning bush
- -> dulling machine, broaching machine, reaming machine single point butting tool:

It is a cutting tool having only one main lutting edge that remains engaged with workpriech during machining operation in a single pan.

milling tool:

These are cutting took typically used in milling machines to perform milling operations.

drill bit !

dill bits are lutting tools used to remore material to create holes, almost always of circular hoss-section Tapping tools:

Taps and dies are took used to Create seem throads which is called threading. The process of arthing or journing threads using a texp is called tapping, where as -the process using a die is called threading. Both looks can be used to clean up a thread, which is called chasing

Reamutool :.

The rotary cutting tool in reaming is known as a reamer like drill bits reamer also, remove material from the workpiece on which they are used. The primary purpose of reaming is brighly to create knowth halls in an existing hole. Manufacturing companies perform remaining using a milling machine or diel press.

Broaching tool ...

Broaching is a machining process that uses a toothed tool, Called a broach, to remore moterial. The principle of the rotary branch is the approach the work at a broad angle. As the tool approaches the preduilled hole, it sprins bynchronously with the part weating a worble effect that causes the heading butting edge to rotate in and oud of the art like a cam.

- 2) jig 1:- operations:
 - plain turning
 - type turning
 - -) slotting
 - -> thurding
 - -> boring
 - -> Jacing

- -> Champering
- -> sand blasting
- natu jet atting

machine tools:

- -) Lattre
- -) Sand blasting machine
- milling machine
- -> autu jett luttu

cutting tools:

- single point cutting tool
- boing tool
- -> Motting cutter
 - threading tool
- 2) fig 2:-) operations
 - Joing
 - Main turning
 - -> taper turning
 - -> guinding
 - -> champering
 - 3) fig 3', operations
 - main tunning
 - Jaung
 - -) type turning
 - -1 Motting
 - horing
 - -) Sand blasting

machine took.

- -) lathe
- -) guirding machine

cutting tools

- single point cutting tool
 - grinding wheel.
- -s champering
- surface contouring
- -) water jet cutting

Machine tools: > Loute - Sand Hasting machine - milling machine -> Natu jett autter cutting took. - single point autting tool - Loung Tool -> slotted wither 41 jig 4-1 operation. machine tools: --) CNC Milling -> CNC Miller -> computer → slotting -> houng -> CADICAM 51 jig 5 → operations: - sand blasting -> Needle will and using rung needle marhire by using forming process. machine took!

-> sand Masting machine

- 61 jig 6: operations
 - plain turning
 - Jacing
 - -> Motting
- -) bourg
- -> Sand Marting
- -) chargeing
- Impace Contoming
- -> reaming
- -> drilling
- 71 Jig 7: operations.
 - Hour turning
 - Jacing
 - -> gear hobbing
 - -> foring
 - -> Stotling
 - -> champhening

- machine tools:
- -> Lath
- -) Sand Masting machine
- -) Milling machine
- -) dilling machine
- cutting-tools:
- -) Single point Cutting tool
- → stotting actter
- -> reamei
- machine tools:
- -) Louthe
- -> Milling aitter witting tools! -
- -> Bowing tool
 - -) slotting Cutter:
- 9) rig 8: operations
 - -) plain tuning
 - -) Jacing
 - -) slotting

- -1 Loung
- -) Sand Hasting
- -> charmpheing

Tools: -) Sand Hasting machine -) Lath -> milling cutter -) single point cutting tool 9) jig-9 -> operations Tooli: 1 threading -) Lathe (audomatic /manual) -> taper-turning - die exitusion -> entrusión -) milling machine -> Champhering -Mingle point Cutting tool -> slotting 10) Jig 10 - operations: tooli: - turning -) Lathe -) threading -> punch - punching 111 fig 11-) operations: tooly'.-- retical milling machine -) milling Chocket) -) raming -) Mamu 12) sig12 -> operations: - champeing - deep drawing a drilling ->-tuning -) vitusión

tools: - Hie drawing → drill lit → die intuisión -) both 13) Jig 13 - operations -tools:--drawing -> lathe -) punching -) die punching -) intrusión - drawing marhine -) champening -) intuision die - turning 141 fig 14- operations tooli. - Hanking -) rutical milling machine -> milling - die blanking - drawing - die drawing -) chambering 151 fig 15-> operations tooli--, drilling -> dull lit -) Loung -) reamed -) raming -) boing tool -> Chamfeung -> single point cutting tool 161 fig 16-s operations:

-) Motting

-> intrusión

-> threating

-> taper turning

-> champeting

tools ?-

-> Louthe

-> milling machine

-) die extrusión

- single point Cutting tool