## FITTING SHOP OKELLING AND TAPPING

EX NO. 8 DATE: November 15,2021

HIM To make I rill and tap on given mildskel work piece

Application Filling industries, fasteners industries, Automobile industries

Supplied material specification

mild steel metal plates of dimension is 50 mm X50 mm X6 mm

Tools Required

Descel rule 2) Try Square 3) Jenny Califor 4) 12" Plat rough Pile 5) Center punch

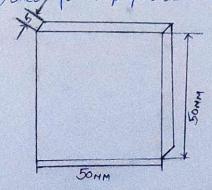
6) bench vice 7) ball peur hammer 8) Drilling Me 9) 6mm, 85mm, 13mm Drill Bits 10) 10mm XI 15 Mm Hand Topset 11) Adjoust top wrench 12) Thread pitch gauge.

Calculation Tapdrill size = tapsize - pichsize · 10mm - 1.5mm = 8.5mm

Sequence of operation Blreporation 2) marking 3) Doilling 4) Tapping 5) Finishing

Working Steps:

i) Preparation i) check the initial dimension using steel rule 2) fix the job once bench vice and file the two adjacent side using a flatfile to form sightangles 3) check for the perfordicularity with try square



Marking 1) Apply chalk on the work swoface 2) Measure 20mm using jury califer from the electrule 3) Transfer the measured dimensions to the work piece with edge 12 mm. 4) Oraw lines along the dimensions on work piece with scriber 5) make dots intercenter point as ing center punch Drilling 1) Place the work piece on the drilling machine platform
2) Using drilling machine make two holes on the dotted place made by centre punch 3) Pour some oil for smooth drill and drill the work piece properly by adjusting the filot. 4) Repeat the steps twice for better finishing 5) Lastly go to the thread pitch guage machine I complete the drilling procedure on the cook Tapping i) for the work piece in the bench vice in such a way that it should not move. 2) Using Tapping fool Imake threads in the holes 3) Repeat the procedure for both holes, then take the toping fool & and use it conefully by rotating in clockwise, simultaneously do this process for both sides Top MION SAM

Ustry a 10 mm screw, check the accuracy of the finish PRE LAB Question 1) Define drilling It is a process of making holes in a solid material using drill 2) his out the types of drilling mochine
"Hand drill machine "I malliple spindle mochine
es sons ilive drill machine & trang drilling machine
5) Radial drill machine & Hammer drill 3) Mention the type of drilling bool Calling tool 4) What is mean by tapping? This the process of outling a thread inside a hale 5) How to colubate top drill size? If can be calculated by subtracting the fitch from the diameter of the thread POST LAB QUESTION 1) what is twist drillculling angle? The helin angle of kist Irill culting is 32° 2) Mention the contres punch angle? The angle of contess burch is 60° 3) How to hold the drill bid? The drill but is held in place chuck, which drill bul is highly fined in Chuck using chuck Key 4) How to measure the hole diameter in drilling proces? Using junny califor 5) How do you determine the fitch for foffed holes! fitch is the number of turns posinch. RESULT The required holes with proper measurements has been obtained asing villing s Tapping techniques