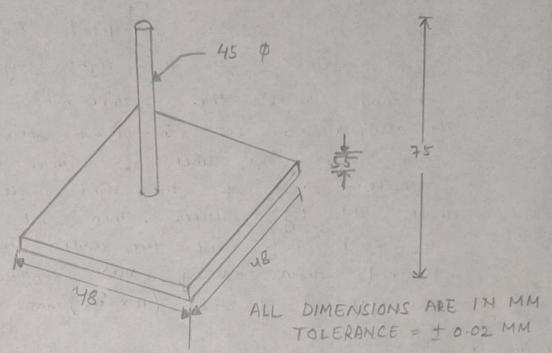
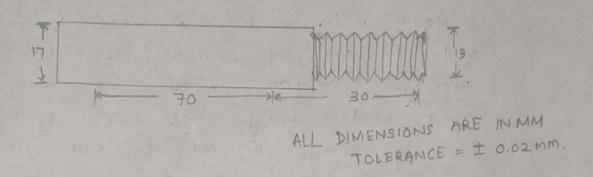
EXPERIMENT - 1



PROCEDURE:

- Measuring: After the work piece is received, the raw material ofte is measured by steel rule to check whether it is correct or not as per basic size he; (50x50 x6) mm for that and (76x6) mm for rad.
- Marking: After the measurment, a line of length 50mm is marked on Ms. Flat using steel rule, try square and scriber. Similarly, another line of length 76mm m Ms rod.
- · Cutting: After marking, the Ms that is set and sold in bench wise at proper height and the metal is cut as per marking line uting Hecksaw.

- is tiled using rough tile and the teather is tiled using rough tile and the teather is cheeked with blade of try square. Then the adjacent side of the saic swiface is tiled for making right angle and the right angle is checked with try square then the odd leg calliper is set in 48 mm with steel rule. Then mark the lines in 48 mm on the opposite side of the right angle surface with odd leg calliper. Then set the job is bench vise and the extra metal is removed from marking area. Similarly prepare the MI rod of 812e (TEX 5.5) mm.
- Drilling: After the female part is prepared, draw the diagonals using scriber and steel rule and a centre mark is mede on the intersecting point. Then the fob is set in mother rice in arraing mechane and make a hole using duil bet.
- Fitting: After both male and female parts are prepared the male part (ms Rod) is tit 55+0 the female part (ms teat) using puth tit.
- . Finishing: voing smooth tice both parts are tinished.
- · Checking: Finally arter finishing, dimencions of both parts are checked using vornier calliper.
- · Submitting: Roll No. ii punched using no. punch and submitted for evaluation



PROLEDURE:

- Measuring and: After receiving the work piece,

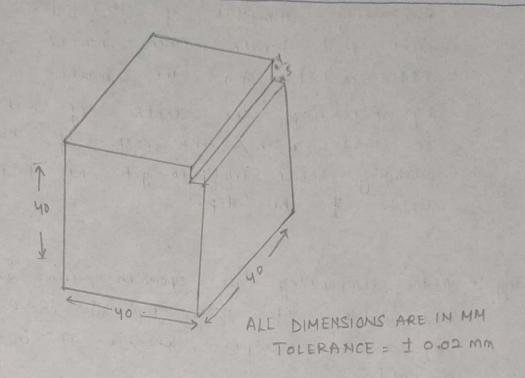
 Marking tirst the size of the work

 piece i measured by runion calcipun
- e Setting the Job :- After measurement, the Job is set in and Tool three Jaw chuck and tight Ct properly by chuck key. Then the centre of the Job is checked by surface garge. Then cutting tool is set in tool holder and the tool holder is set in tool post at proper height and centre of the tool is crecked by acad centre.

· Operation: - After the gob and tool is set, tiret make one end of the work piece plain by taking operation. Then the job a removed from muck and wine is marked with 100 mm. by scriber and depth bor of the rounier calliper at the opposite end of the facing sorface. Then the deameter is reduced out of 20 mm to 17.1 mm by tuning operation with the hap of right rand turning tool, Then again a line of 30 nm is marked and the dianeter i reduced out of 17.1 mm to 13.1 mm Then swiface tinishing is dure by that smooth tile and also requer the diameth of an steps. After that the thread is cut on the lest the Ly V-thread cutting tool, Finishing of the thread is done by tring wear fice

- · Checking: After all operations are completed, oneck the length and wameter of each step by vurier calliper
- · Submitting: After enceking, purching the voll no. and branch on the 505 by number punch and submit for and return.

EXPERIMENT-3



PROCEDURE :-

Measuring and: - After the work prece is received, marking the size of the work prece is measured by runter calliper . Iten the surface is coeted by chark and also when are marked on the charking swiface by odd leg callipere and ofteel rule. Then marking when are punched by dof punch and hammer.

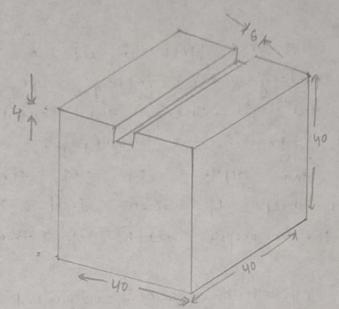
"Setting the Job :- After measurement, the Job is set is and Tool a machine vice at proper neight and set the mining cutter on arbor.

- · Operation: Then the cutting edge of the cuttor is set on 5mm marking area by increasing the line of the job by cross feed hardle. Then remove the extra metal from the marking area by increasing the depth of cut time to time with the new of knee elevating harde till to get the proport depth of the step.
- · Checking: After compreting all operation, the depth and width of the step is checked by voision calliper, whether it is correct or not
- · Submitting: After checking, punching the not no.

 and branch of the job by number

 punch and letter punch and submit

 it for evaluation.



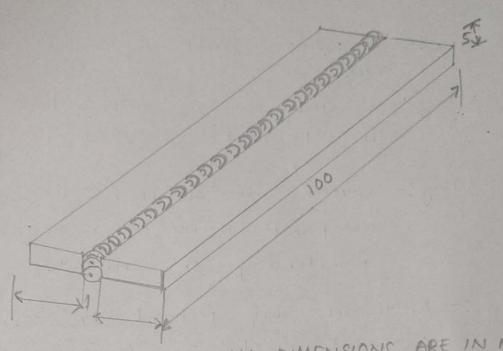
ALL DIMENSIONS ARE IN MM TOLERANCE = + 0.02 mm

PROCEDURE :-

Measuring and . — After the work piece is received, marking tirst the dize of the work piece is measured by vornion californ whether if it correct or not as pur base size. Then the surface is marked by chalk and also mark the lines of the key way on the chalking swiface by odd leg callifer and steel rule.

Then purch the marking lines by dot purch and hammur.

- e Setting the Job: After measurement, the job is set in and Tool machine vice at proper height and the tool is set in tool post. Then the nose of the tool is set is between two marking when of the key way on the job.
- Operation: After the job and tool is set the depth of cut by touching the cutting edge of the tool on the job. Then the extra metal is removed from the marking area by increasing the depth of cut time to time with the help of down feed hardle till to get the proper depth of the key way.
- · Checking: After all operation are computed, the depth and whath of the key way is enecked by runter calliper, whether it is correct or not.
- Submitting: After cheeping, purching the roll no. and branch on the Job by no punch and letter punch and submit tor evaluation.

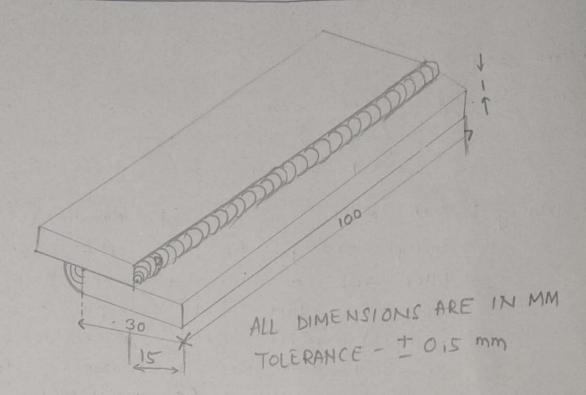


ALL DIMENSIONS ARE IN MM.
TOLERANCE - + 0 5 MM

PROCEDURE :-

- Measuring: A mild steel that of (19x5)mm was taken and by using steel rule it was measured about 101 mm.
- · marking: enack was coated on M.s. flat then by using scribber and they square the line was marked about 101 mm.
- eut by using hacksan.

- Edge preparation: the edger of M.S Hat were prepared by using odd-leg calvipor, try square and rough tien to obtain required aimention (100×19×5) mm for two pieces.
- Job setting: The two pieces of the M.S flat were placed in the arc welding booth on that position with Imm root sap for butt joint.
- · Current setting! current was set-up (90-120) Amp. by using transformer according to the 3.15mm abanetur of the electrode.
- · wilding: First are was produced by scratching method then tack weld m the job. medium are length was mantained to weld the job in sugartly wearing motion
- · cooling: After welding the gob was cooled by air.
- · chipping: The stag was removed by the chipping hammer
- · creaning! spatters were removed by chiesel and hammon both side of the bead. Then both side of the bead. Then both stide and beads were cleaned by the hup of wine brush 8 rough tile
- · Punching :- Roll no. was purched by number punch after checking the dimensions
- . Submitting! The Pob was submitted for assessment.



PROCEDURE :-

- · Measuring: A mild steel sheet Imm was taken and by using steel rule it was measured about (101 x 31) mm.
- Marking: Chark was used on Mis sheet then using scribber and try equal the unit were marked for length 101mm and wildth 31mm for two pieces.
- · cutting: The Mil sheet markeing were out by using shearing machine
- · Edge Prop.: The edger of ms sneet were proposed by using odd leg califor, try square and rough toll to obtain required dimensions

- "Icryth 100 mm and breadth 30 mm.
- one orm another on gow welding table on that pinition for lap joint.
- · Hame John &x
- oflame setting: The thame was set up muetral (3200°C) equal amount of oxygen and actylens gas.
- · Welding: Both picce was tacked by nuetral thank during tacking tip of the mozzle and tillur rod mantain distance approximately 3mm. Then left word technique was mantained to weld pieces which angle between tiller rod and blow pipe was taken to be (30-40) degree and (60-10) degree.
- · cooling: AFter welding the job was cooled is
- · cleaning! After cleaning the gob was cleaned by rough till and wire brush
- · Punching: The Job was punched by the noo punch after cheeking the dimensions.
- · Subwitting: The job was subwitted for ascumon.