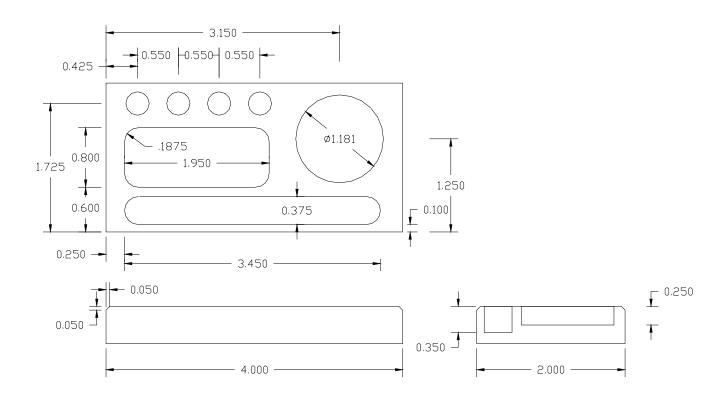


WinCAM Milling Level 2

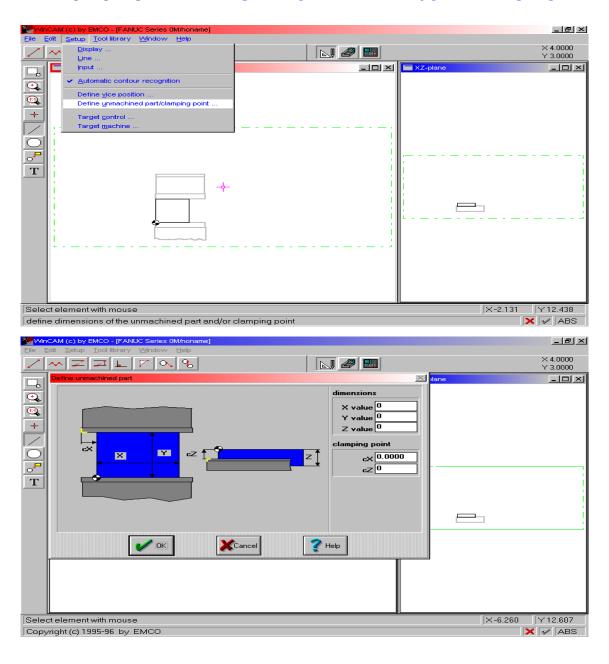
F1Z 010	Collet holder	For ESX-25 collets	
225 100	(9.0-10.0mm)Ø 3/8"	ESX 25 COLLETS	
764 308	Acc. to DIN 327, shape B cutting-ø10 mm / shank-ø10mm or a 3/8 end mill	Slot end mill, HSS	

PART SIZE = "2 X 2 X .5" OF 2024-T4 ALUMINUM

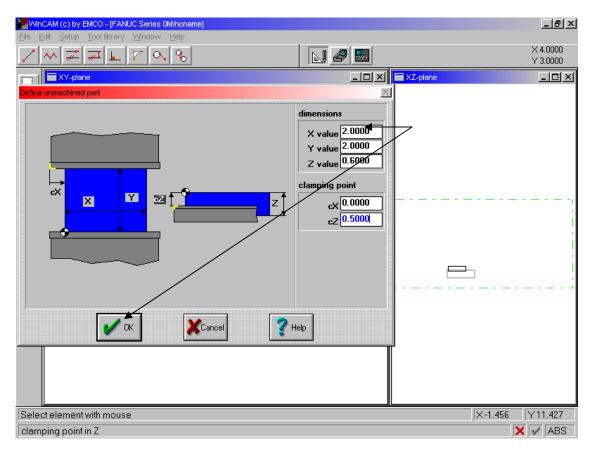


WinCAM Mill Step by Step CAD Setup

- 1. LEFT CLICK ON SETUP (THE TOP BAR OF THE SCREEN)
- 2. CLICK ON DEFINE UNMACHINED PART/CLAMPING POINT

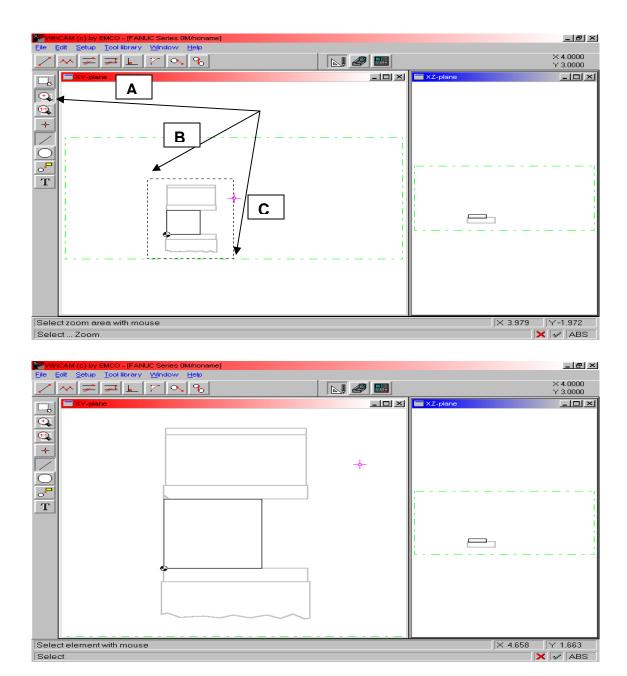


- 3. UNDER DIMINSIONS HIGHLIGHT × value 2.0000
- 4. TYPE 4. (LENGTH OF THE PART); THEN PRESS TAB
- 5. TYPE 2. IN THE Y VALUE BOX (WIDTH) THEN PRESS TAB
- 6. TYPE .5 IN THE Z VALUE BOX (HEIGHT) THEN PRESS TAB
- 7. TYPE 0. IN THE cX VALUE BOX (AMOUNT OF STOCK STICKING IN OR OUT OF THE VICE) THEN PRESS TAB
- 8. TYPE .4 IN THE cZ VALUE (STOCK ABOVE THE VISE)
- 9. CLICK OK VOK

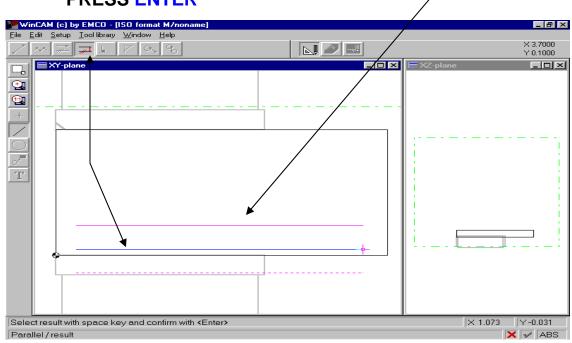


NOTE: PLACE THE MOUSE POINTER OVER ANY ICON AND WINCAM AUTOMATICALLY IDENTIFY THE ICON AT THE LOWER LEFT OF THE SCREEN.

- 10. CLICK ON THE ZOOM DRAWING ELEMENT ICON (A)
- 11. PLACE THE MOUSE POINTER OR + SIMBOL TO THE UPPER LEFT SIDE OF THE VICE (B)
- 12. CLICK & HOLD THE LEFT MOUSE BUTTON & DRAG TO THE BOTTOM RIGHT SIDE OF THE VICE (C)
- 13. LET GO OF MOUSE; YOUR VEIW WILL ENLARGE



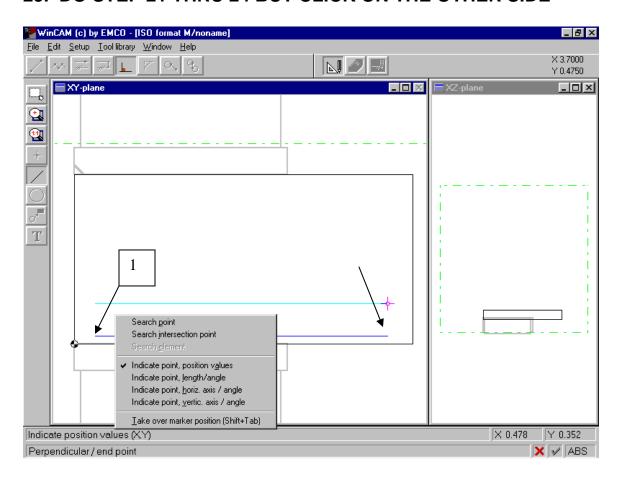
- 14. CLICK ON THE DRAW LINE ICON (SINGLE LINE)
- 15. TYPE .250, .100 FOR THE START POINT / THEN PRESS ENTER ON THE PC KEYBOARD
- 16. TYPE 3.700, .100 FOR THE END POINT / PRESS ENTER
- 17. CLICK ON THE PARALLEL WITH DISTANCE
- 18. CLICK ON THE LINE THAT WAS JUST CREATED
- 19. TYPE .375 OR IF 10MM IS USED TYPE .393 /PRESS ENTER
- 20. USE THE SPACE BAR TO BOLD THE UPPER LINE / PRESS ENTER



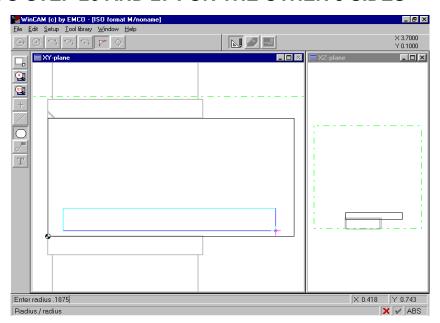
NOTES:

- 1: CORDINATES ARE ABSOLUTE FROM REFERENCE POINT
- 2: ALL VALUES TYPED IN ARE LOCATED AT LOWER LEFT OF THE SCREEN

- 21. CLICK ON PERPENDICULAR AND CLICK ON TOP LINE
- 22. RIGHT CLICK ON MOUSE BUTTON
- 23. HIGHLIGHT SEARCH POINT THEN LEFT CLICK
- 24. CLICK ON THE OTHER SIDE OF THE ENDING LINE SEGMENT (1)
- 25. DO STEP 21 THRU 24 BUT CLICK ON THE OTHER SIDE



- 26. CLICK ON CIRCLE ICON
- 27. CLICK ON THE INSERT RADIUS
- 28. CLICK ON ANY LINE IN THE BOX BELOW AND THEN TYPE IN .1875 (3/8) THEN PRESS ENTER
- 29. DO STEP 26 AND 27 FOR THE OTHER 3 SIDES



30.

31. CLICK ON CIRCLE WITH CENTER AND RADIUS ICON



32. TYPE 1.0,1.0 LOCATES CENTER OF THE PART / THEN PRESS ENTER

33. TYPE .25 FOR THE RADIUS OF THE CIRCLE / THEN PRESS ENTER

- 1. CLICK ON FILE (TOP LEFT OF THE SCREEN)
- 2. CLICK ON SAVE AS
- 3. TYPE HEX
- 4. CLICK OK

You have just completed the CAD portion of the Step by Step guide, go to the next page for CAM

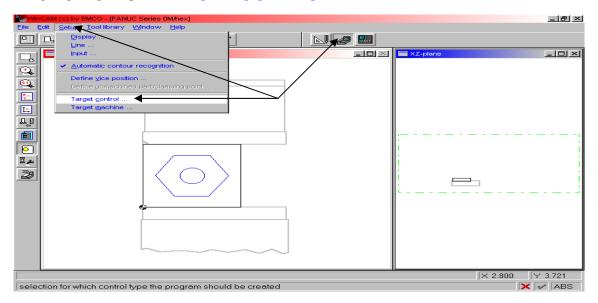
WinCAM Mill Step by Step CAM Setup

1. CLICK ON CAM ICON (UPPER MIDDLE OF SCREEN)

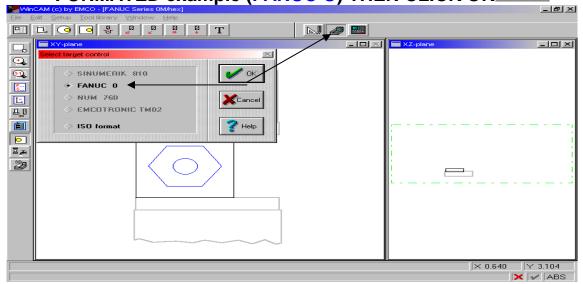
THIS SWICTES MODES TO COMPUTER AIDED MACHINING

Note: Only use steps (2, 3 & 4) if you purchased the option(s) for Siemens, Fanuc, Num 760 or Emcotronic TM02

- 2. CLICK ON SETUP (TOP LEFT OF THE SCREEN)
- 3. CLICK ON TARGET CONTROL



4. CLICK ON THE POST FOR THE PROGRAM TO BE FORMATED example (FANUC O) THEN CLICK OK



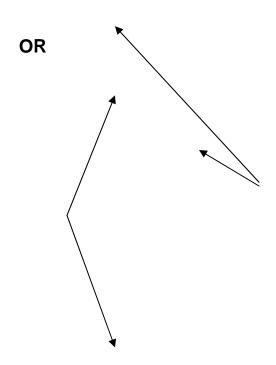
- 5. CLICK ON TOOL LIBARAY (TOP LEFT OF THE SCREEN)
- 6. CLICK THE GRAY BOX 2 2 3/8" endmill (UNDER TOOL LIBRARY)
- 7. CLICK THE GRAY BOX T1, empty (UNDER TOOL HOLDER)
- 8. CLICK ON THE TRANFER ICON (THIS PLACES TOOL IN TOOL HOLDER)
- 9. CLICK OK

- 10. CLICK ON THE TOOL CHANGE ICON
- 11. CLICK ON THE GRAY BOX VXT1, #3: 3/8" endmill / THEN

 CLICK OK
- 12. CLICK ON THE PERIPHERY ICON 13. CLICK ON MAIN SPINDLE ON RIGHT (M03)

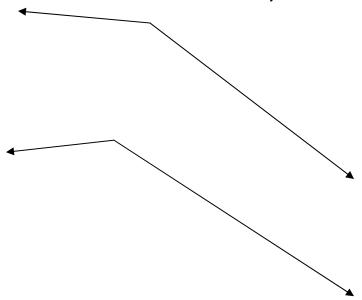
 14. CLICK ON MACHINE ICON 14. CLICK ON MACHINE ICON 15.

- 15. CLICK ON MOVEMENT IN RAPID MOTION IN PLANE ICON
 (X, Y)
- 16. PLACE THE MOUSE IN THE CENTER OF THE PART / LEFT CLICK OR YOU CAN TYPE IN 1,1 THEN ENTER
- 17. THE TOOL WILL LOOK AS IF IT IS THROUGH THE PART

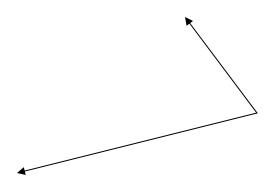


- 18. CLICK ON MOVEMENT IN RAPID MOTION IN FEED DIRECTION ICON (Z)
- 19. TYPE IN .100 FOR THE HIEGHT (ABOVE THE PART)
- 20. PRESS ENTER ON PC KEYBOARD
- 21 CLICK ON POCKET MILLING WITH ISLAND ICON

- 22. CLICK ON THE HEX
- 23. CLICK THE GREEN CHECK MARK **✓** (BOTTOM RIGHT)
- 24. CLICK ON THE CIRCLE (MIDDLE OF THE PART)
- 25. CLICK THE GREEN CHECK MARK **≥** 2 TIMES (THIS IS COMFERMATION OF THE SELECTED ITEM)



- 26. DOUBLE CLICK ON THE T = DEPTH (WHITE AREA)
- 27. TYPE IN -.1 / THEN PRESS TAB
- 28. TYPE IN .05 IN Z(t) FOR ADVANCE DEPTH / PRESS TAB
- 29. TYPE IN .1 IN RE FOR RETURN PLANE / PRESS TAB
- 30. TYPE IN 0 IN SE FOR START PLANE / PRESS TAB
- 31. TYPE IN 0 IN SA FOR FINISH OFFSET / PRESS TAB
- 32. TYPE IN 3 IN F(t) FOR Z FEED (FEED PER MINUTE) / PRESS TAB
- 33. TYPE IN 5 IN F(f) FOR X,Y FEED (FEED PER MINUTE) / PRESS TAB
- 34. TYPE IN 1500 IN S FOR SPINDLE SPEED (DIRECT RPM)
- 35. CLICK ON OK



- 36. CLICK ON MOVEMENT IN RAPID MOTION IN FEED DIRECTION ICON (Z)
- 37. TYPE 2. / PRESS ENTER
- 38. CLICK ON MOVEMENT IN RAPID MOTION IN PLANE ICON
 (X, Y)
- 39. MOVE THE MOUSE TO THE UPPER RIGHT CORNER OF THE VISE PART (1) / THEN LEFT CLICK
- 1. CLICK ON FILE (TOP LEFT OF THE SCREEN)
- 2. CLICK ON SAVE AS
- 3. CLICE 1 HEX.DFM
- 4. CLICK YES TO FILE ALREADY EXISTS
- 5. CLICK OK