

Build a Foamcore CNC Machine

by **imoyer** on March 20, 2011

Table of Contents

Build a Foamcore CNC Machine	1
Intro: Build a Foamcore CNC Machine	3
Step 1: Gather Your Tools	4
File Downloads	6
Step 2: Gather Your Materials	6
File Downloads	9
Step 3: Lay Out the Top Plate	9
File Downloads	12
Step 4: Cut Out the Top Plate and Table	12
Step 5: Lay Out the Back and Bottom Plates	15
File Downloads	15
Step 6: Cut Out the Back and Bottom Plates	16
Step 7: Lay out the Legs	18
File Downloads	18
Step 8: Cut Out the Legs	19
Step 9: Laminate and Cut Delrin Strips	20
File Downloads	24
Step 10: Laminate Strips to the Top Plate	24
File Downloads	29
Step 11: Laminate Strips to the Back Plate	29
File Downloads	30
Step 12: Glue the Structure	31
File Downloads	34
Step 13: Lay Out and Cut the Table Struts	35
File Downloads	36
Step 14: Assemble the Table	37
Step 15: Cut the Wooden Dowels	38
Step 16: Counterspring and Table Components	40
File Downloads	45
Step 17: Prepare the Motor Mounts	45
File Downloads	47
Step 18: Mount the Motors	48
Step 19: Wire the XY Stage	51
Step 20: Mounting the Z Stage	56