

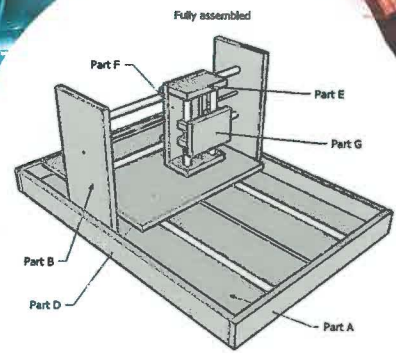
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# MY BATIK ARTS MACHINE



## PROBLEM STATEMENT

- Manual batik chanting method is unable to meet the batik industry demands
- Pattern sketching on the fabric is required before the exact chanting process
- Low productivity
- Low repeatability
- Highly skilled workers are required for design & chanting process

## PRODUCT DESCRIPTION

- **Objective**  
 To develop an automatic batik chanting machine with multi sized wax depository system
- **Summary of Invention**  
 Chanting is a tool used in creating batik patterns (Batik is a wax resist decorative technique used on fabric). They hold and dispense hot wax in such a way that the artist can control the pattern laid down by the wax with a great deal of precision. Batik is becoming more popular locally and globally than ever before. The existing batik chanting industries are unable to meet the exponential demand due to the limitations of batik production. In addition, high skilled workers are required to design the batik pattern and perform the chanting process. The new batik machine tool was developed to aid manufacturers to mass produce batik.

## PRODUCT ADVANTAGES

- The machine can be operated at various operator skills
- The batik drawing can be done by using drawing pad or open source drawing application
- Minimal defect on batik drawing canvas
- Wax depository system tool can be changed according to wax line size

## NOVELTIES

Multi sized Wax Fluid depository system tool

## COMMERCIAL POTENTIAL

My Batik Arts Machine is suitable for batik manufacturers' use

### Facts & Figures

#### Machine Specifications

Software : LinuxCNC  
 Machine Travel : X-Axis ~18"  
 Y-Axis ~12"  
 Z-Axis ~3"



Leadscrew Pitch : X-Axis 5 Turns Per Inch (0.2in per rev/5.08mm per rev)  
 Y-Axis 5 Turns Per Inch (0.2in per rev/5.08mm per rev)  
 Z-Axis 12 Turns Per Inch (0.08334in per rev/2.1167mm per rev)

Resolution : (X & Y Axis)  
 Full Step 0.001"  
 Half Step 0.0005"  
 Quarter Step 0.00025"  
 Eighth Step 0.000125"  
 Sixteenth Step 0.0000625"

