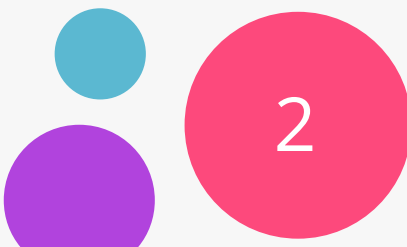




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- 6 How To Maintain





Dave – Mapper



Chloe - Accountant



Abi - Scheduler

# FANTASTIC SIX

## INTRODUCTION



Min - Journalist



Dilla -  
Communicator



Adit - Designer



# Background



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# Gintangan Bamboo Crafts



## What is Gintangan?

The biggest place to produce bamboo product in Banyuwangi.

## Bamboo Products

- They sell 200pcs bamboo product/day.
- The TRUNTUM pattern is origin from Gintangan, Banyuwangi.
- The most popular is the **ROUNDED BAMBOO** shape





Thinner the bamboo



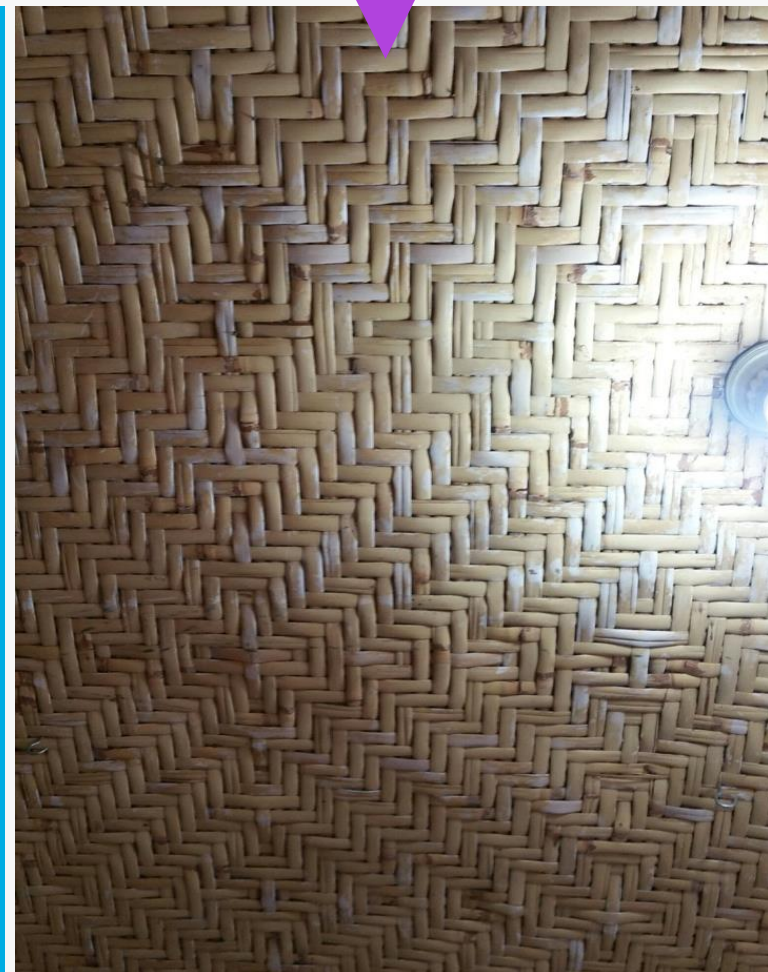
Thread the bamboo



Cut the Bamboo into pieces

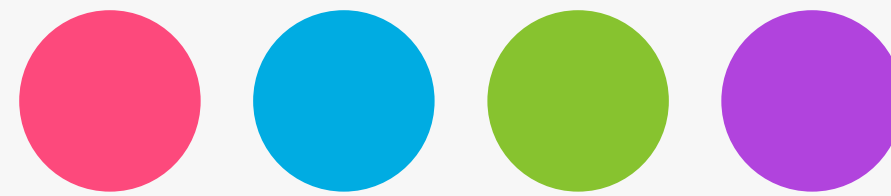


Bend the bamboo



Assemble all the bamboo parts

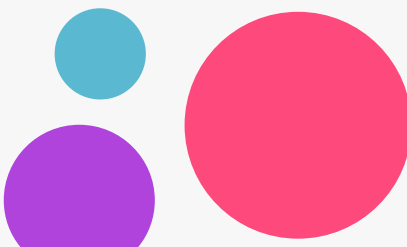




# Problem



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# The most popular issues

*Top 4 issues in Gintangan Bamboo Craft.*



## Unsafety bamboo holder

The bamboo holder is too dangerous because the bamboo can easily move when they cut the bamboo.



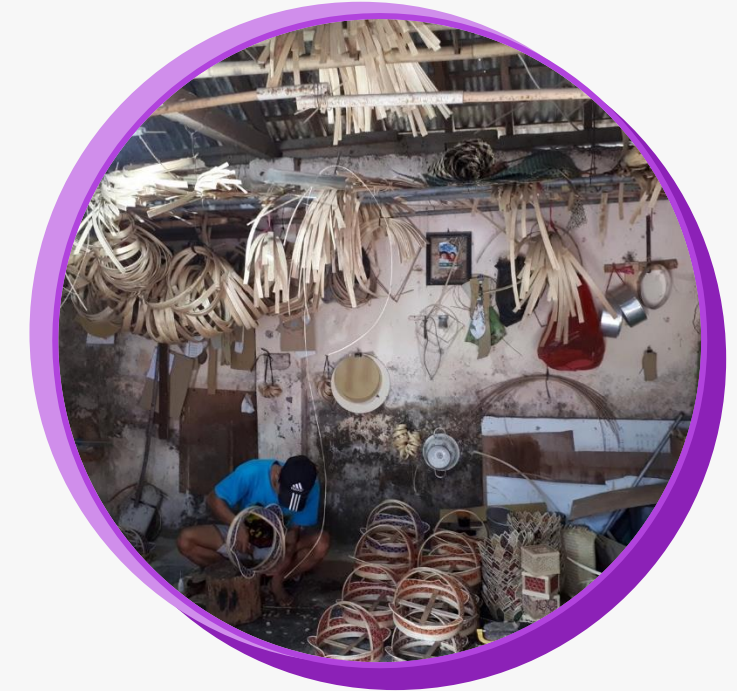
## Manual way to bend the bamboo

The bamboo artisans use his knee to bend the bamboo, it may hurt his knee.



## The messy place

The bamboo artisans put their tools randomly, it may hurts the barefoot.



## No free space

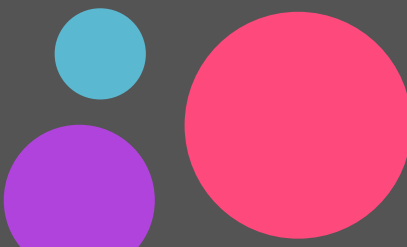
The rounded bamboos are hanging on the roof, it may break the bamboo in rainy season.





## CHOSEN ISSUE

“Manual way to bend the bamboo”





## 4 Ideas for this issue

1

### Column

Make a fixed column from the iron tube.

2

### Frame

Put the bamboo into the frame.

3

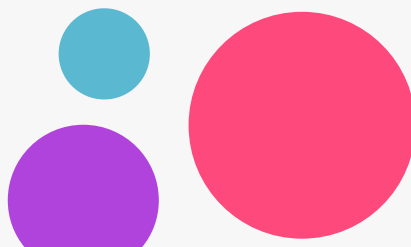
### Roller Machine

Bend the bamboo with metal-tube to squeeze and thinning the bamboo.

4

### Nails bending

Use nail to pull out the bamboo.

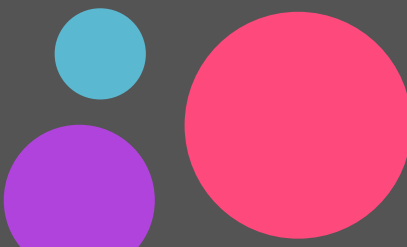


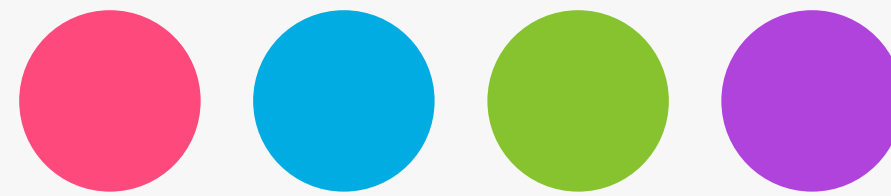




CHOSEN IDEA

“Roller Machine”

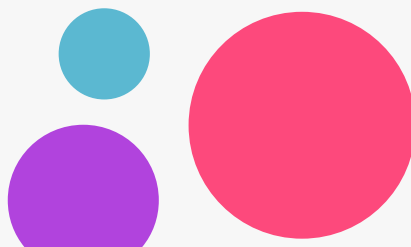




# Goals



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# Our Goals

3 Important Keywords

## Quality


Everyone can bend the bamboo with the same **quality**.

## Cost

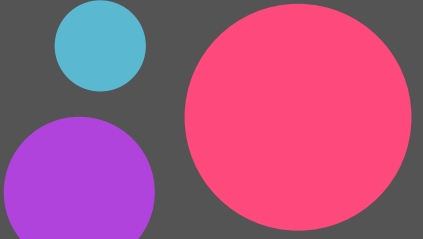
They don't need to pay much to the worker to bend the bamboo, so it is **more cheaper**.

## Speed

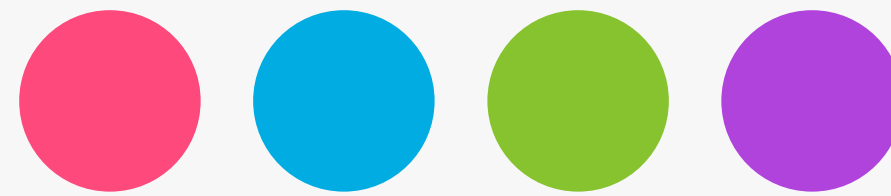
The bamboo artisan can make a rounded shape of bamboo **faster**.



If they can reach the goals, they can increase their  
money income.



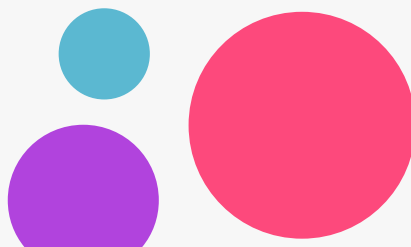


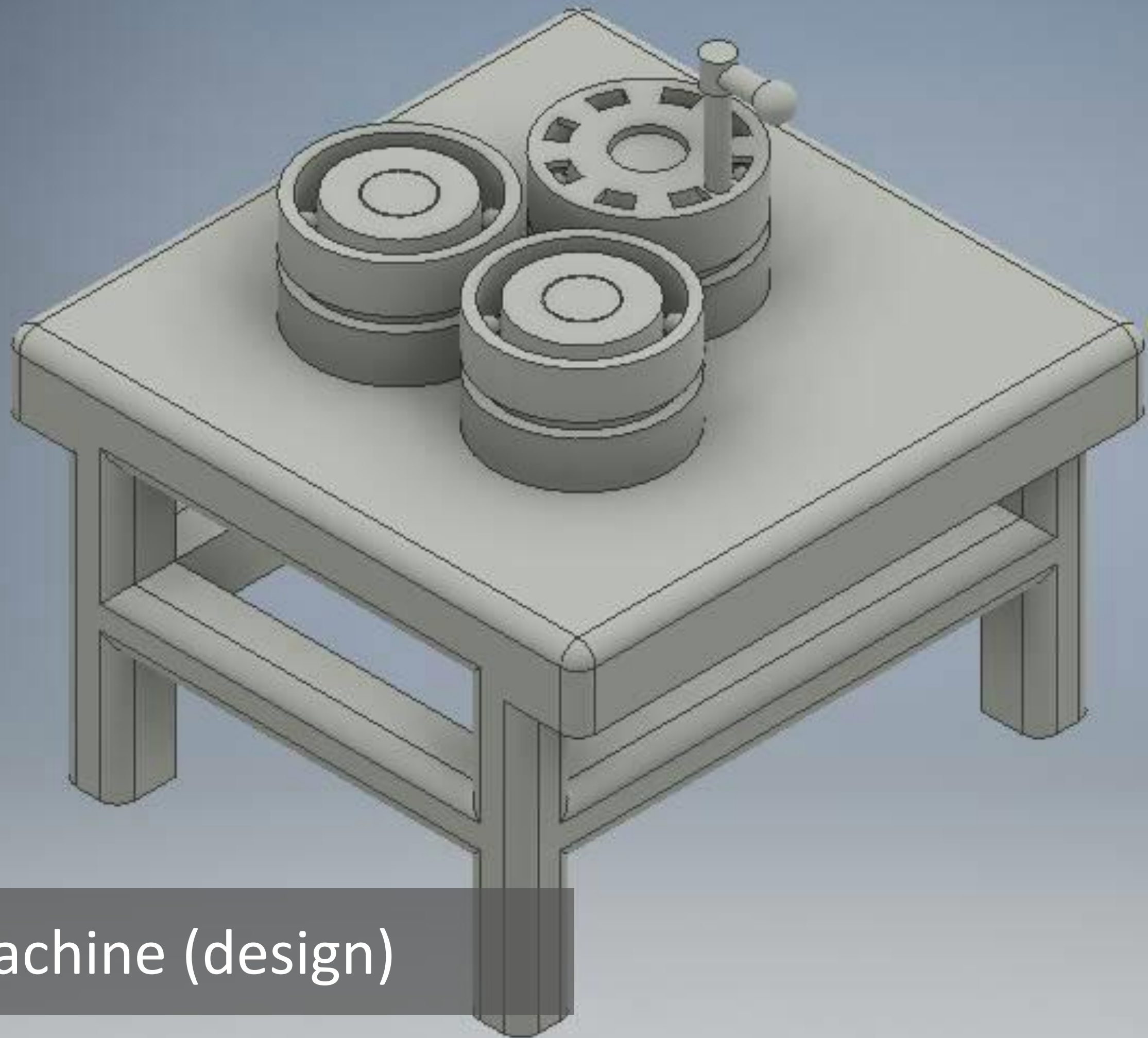


# Design



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Roller Machine (design)



# Materials

1. Bearings (6pcs)
2. Steel Plate (45 cm x 50 cm)
3. Hollow Steel (4.5cm x 4.5cm)
4. Lever
5. Shaft
6. Steel Paint
7. Thinner
8. Grinder Plate (5 pcs)
9. Electrode (1 box)

# Tools

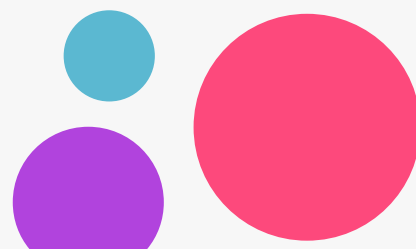
1. Grinder
2. Welding Machine
3. Ruler
4. Paint brush



# Method



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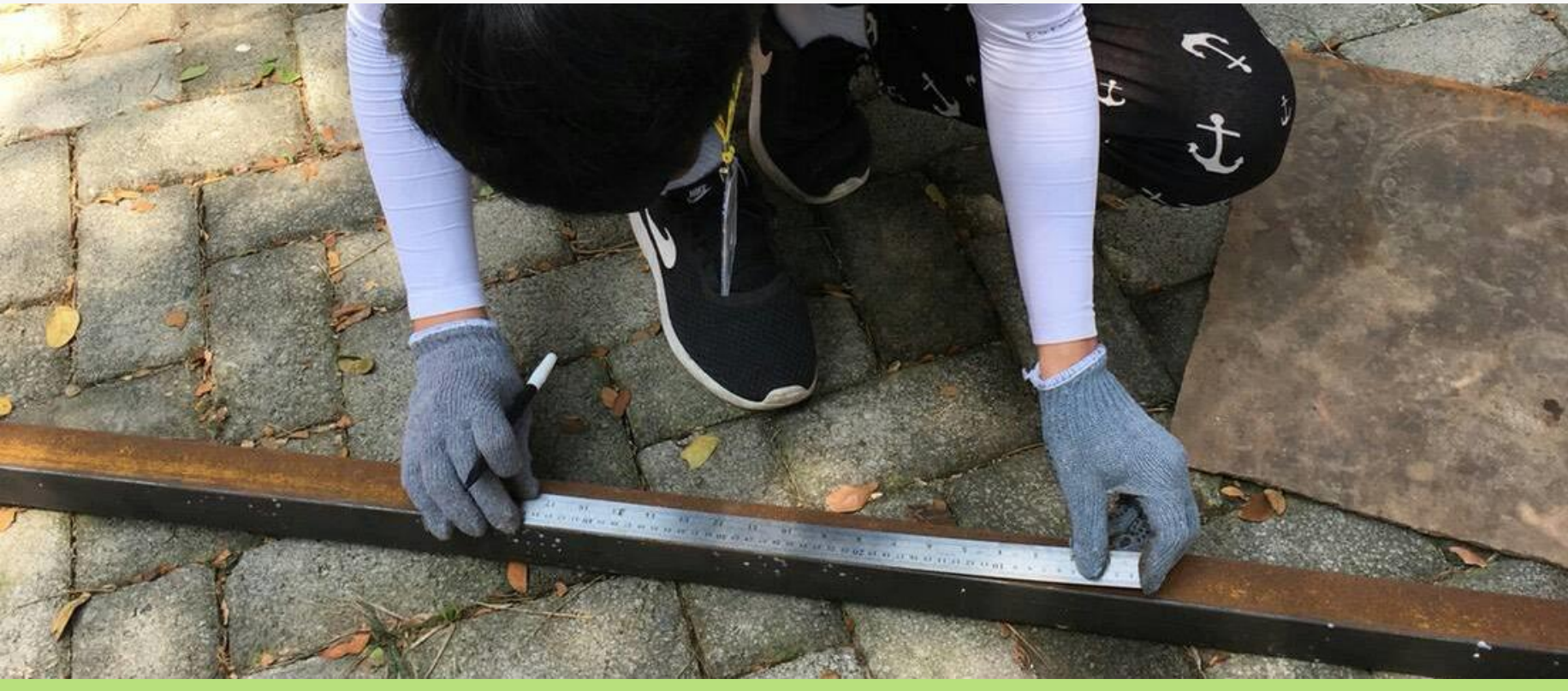




# Steps

## 1st step

Measure the length of the hollow steel that will be cut.



## 2nd step



Cut the hollow steel based on the measurement we have done before.



# Steps



## 3rd step

Weld all the hollow steel to make it as a frame.

## 4th step



Cut the steel plate.



## 5th Step

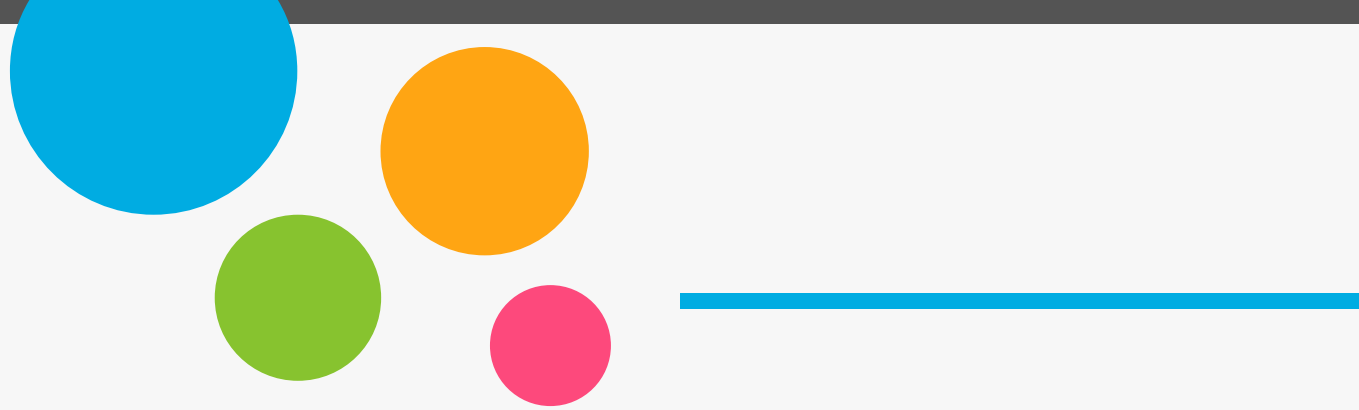
Weld the whole frame to the steel plate.

## 6th step



Cut the shaft as high as the bearings.





### 7th step

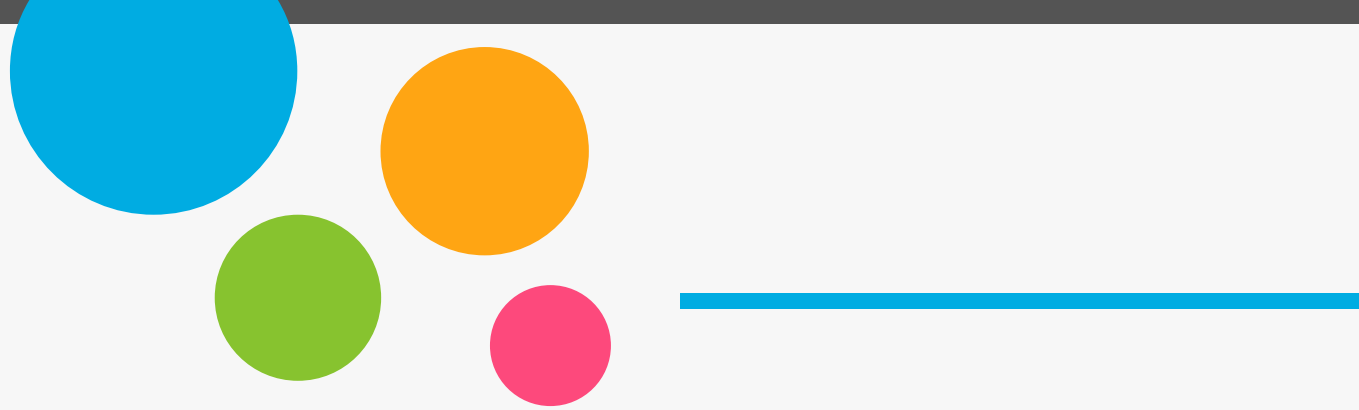
Weld the three shafts on the plate. And put two bearings by each shaft.

### 8th step



Weld the lever on the bearings.

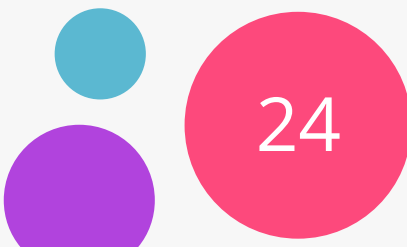




## 9th step

Polish the product with an anti-oxidant. And then, paint it as a white color with a compressor

## The Final Product

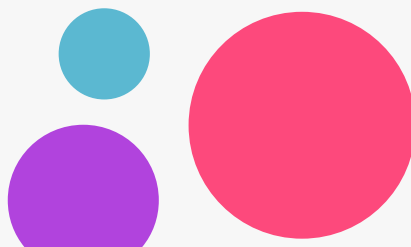





# How To Use



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A video showing two men in a workshop. The man on the left, wearing glasses and a dark blue polo shirt with a logo, is using a hammer to work on a piece of wood. The man on the right, wearing a black t-shirt, is assisting him. They are working on a table with a white sheet of paper and a pair of scissors. The background is a cluttered workshop with various tools and materials.

Today,our product is finished

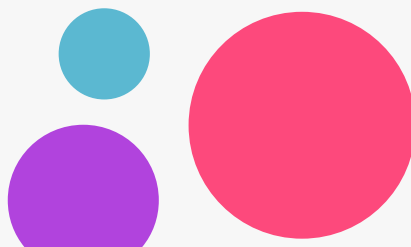
Made With  
**VivaVideo**



# How To Maintain



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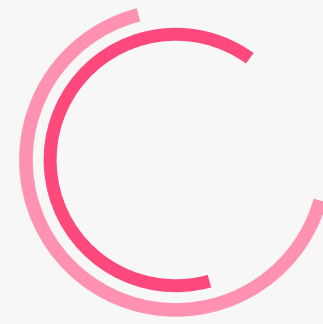
# How to maintain

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*Roller Machine*

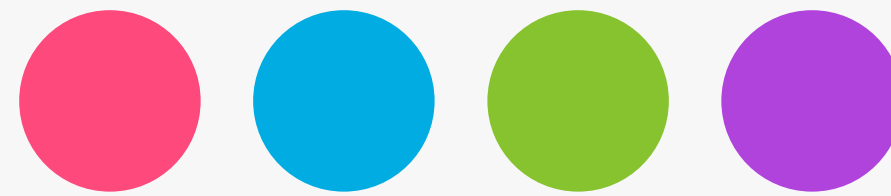


Coating the product with an anti-oxidant regularly



Put the product safely from rain

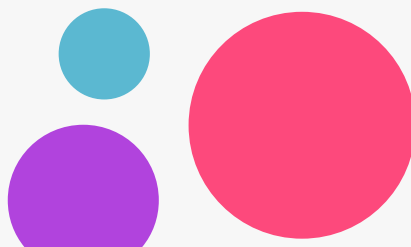




# Result



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Made With



# Thank You!

Any Questions?

