

UNION OF MYANMAR

MINISTRY OF SCIENCE AND TECHNOLOGY

GOVERNMENT TECHNOLOGICAL COLLEGE

HINTHADA

DEPARTMENT OF COMPUTER NUMERICAL CONTROL  
ENGINEERING

A.G.T.I SECOND YEAR  
OF

COMPUTER NUMERICAL CONTROL

PROJECT NAME - HAND PRESS MACHINE

A.G.T.I., YEAR II , 2CNC.

Date. 15 September 2006.

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**PRESENTERS**

1. THET MAW LIN
2. JULIER TUN
3. HTET AUNG SOE
4. TIN SAN OO
5. SOE NU WIN
6. HEIN HTET AUNG (HEAD)
7. HAMAR NWE
8. THINZAR AUNG
9. TIN MOE
10. CHO ZIN
11. AYE PING
12. SAW THANDER AYE

## REQUIRED COMPONENTS

1. body
2. Spindle shaft (Screw)
3. Handle
4. Press Rod with press flat
5. Screw
6. Solid Frame with base plate

## FORWARD

## INTRODUCTION

Wood and iron can be press by hand press machine. It is very useful for people in the village and undeveloped country regions. It is easy to use and carry. Therefore it is used until the modern time.

## PRODUCE

1. First , body
2. Locate the hundle at the arm.
3. And screwed with a screw jet handle and the shaft.
4. Assemble the ban rod by the screw.

## ADVANTAGE

1. It is low prodcuton cost.
2. It has longer life.
3. It is easy to manufacture.
4. It is easy to operate.
5. It is easy to carry.
6. It is easy to repair and maintenance.
7. It is not need electrical and fuel.

## CONCLUSIDN

- It very useful and advantages
- No, fuel and electrical power, and hand power is needed.
- It is portable and easy to carry anywhere.
- By using it, we can gain clean and we can make easily.

## **Component Operation**

### **1. Body**

Material - Mild steel

No: of piece - 1 No

#### Operation

To assembly screw and other components

### **2. Spindle shaft**

Material - Mild steel

No, of piece - 1 No

#### Operation

To compress the workpiece by shaft screw and it connect the press flat.

### **3. Handle**

Material - Mild steel

NO, of piece - 1 No

#### Operation

To rotate the spindle shaft screw.

### **4. Press Rod with press flat**

Material - Mild steel

No, of piece - 1 No

#### Operation

To press the work piece.

### **5. Screw**

Material - Mild steel

No, of piece - 1 No

#### Operation

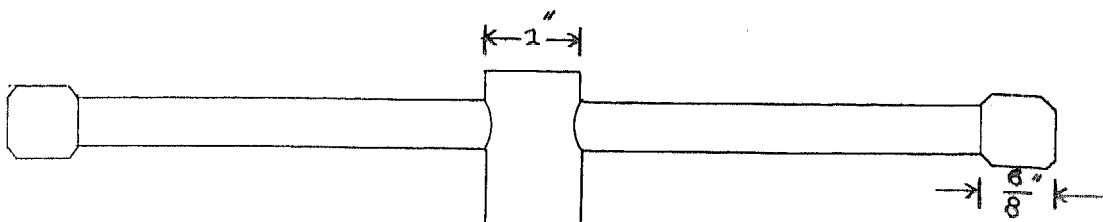
To compress the work piece.

### **6. Solid frame with base plate**

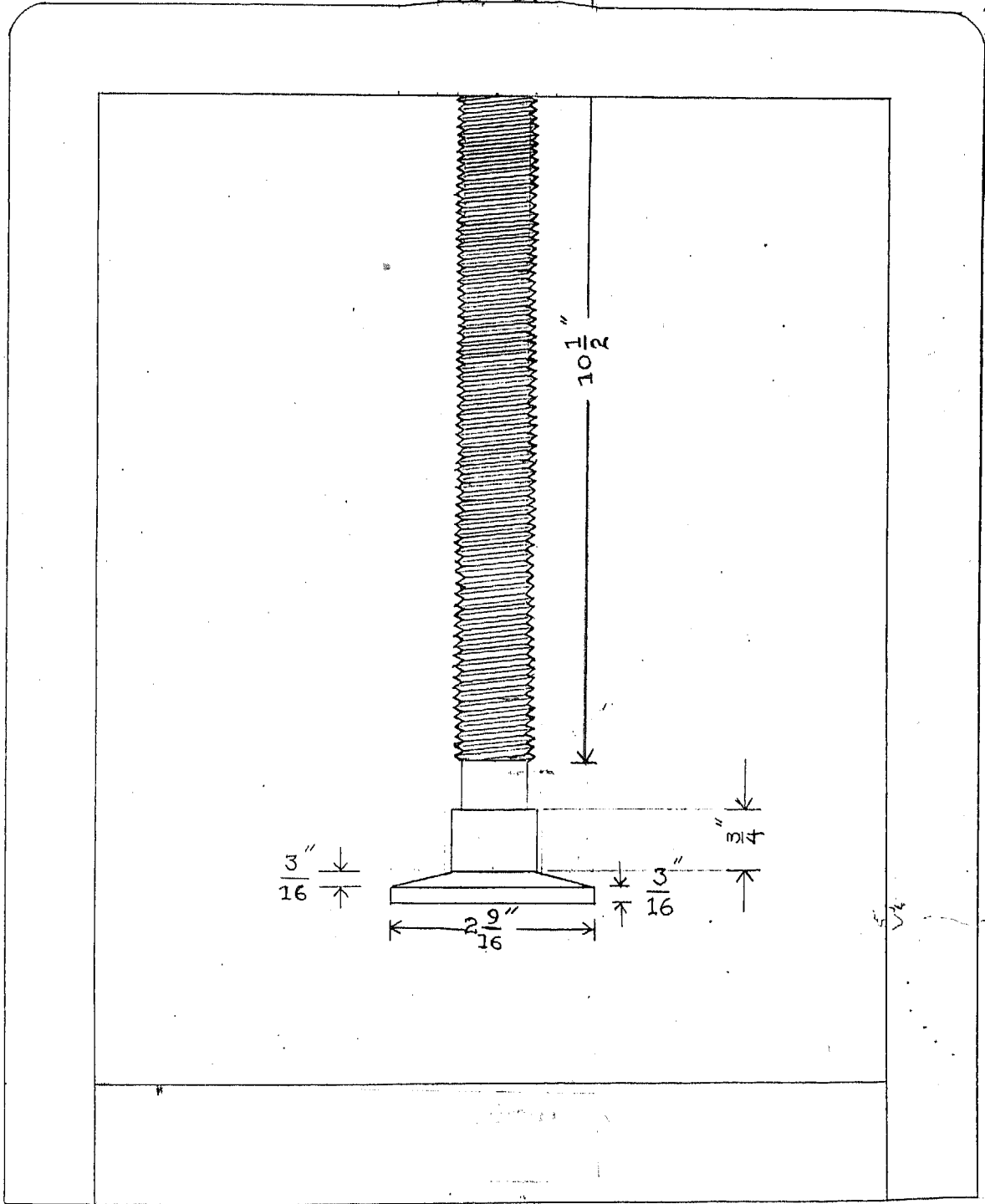
Material - Mild steel

No, of piece - 1 No

10"

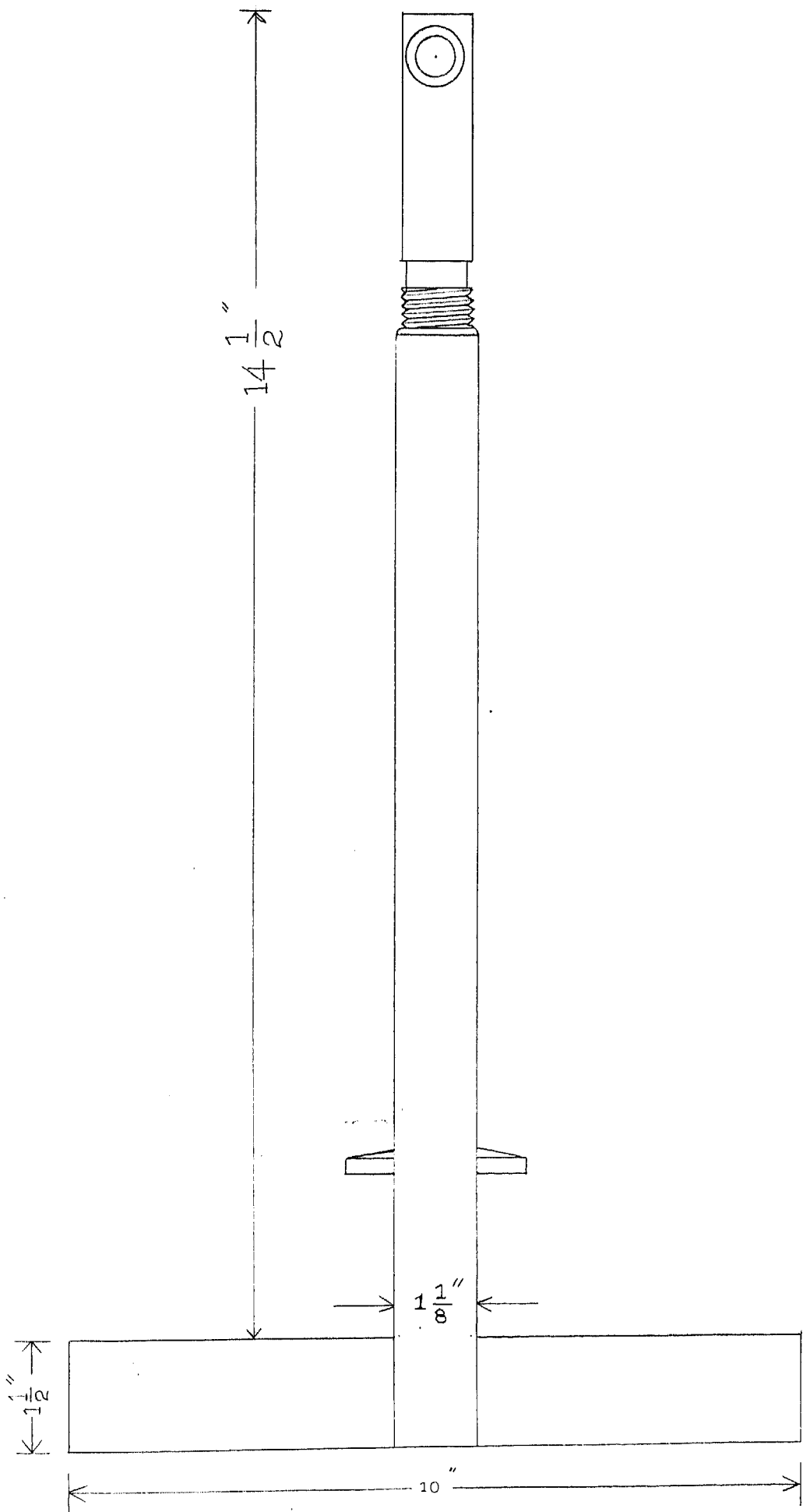


Draw  $\frac{1}{2}$  size



FRONT VIEW

HAND PRESS



SIDE VIEW

## CALCULATION

For spindle shaft Screw.

Pitch Diameter = 3 mm

No: of Teeth =  $\frac{10.5 \times 24.5}{3} = 86$  teeth