NOTE:
16 TOOTH GEAR
ALL TEETH EVENLY SPACED
SPACING APPX. 22.5°

16X Ø 5.08

32X R2.54
Ø 25.40

Ø 7.94 DRILL WITH GEAR
ASSEMBLED ON SHAFT
FOR KEYWAY

Ø 7.94 DRILL THRU GEAR
AND BASE ASSEMBLY
FOR SAFETY PIN

20.00°
NOTES:
1) LARGE THROUGH HOLES NOT TO BE DRILLED UNTIL BASE AND BUSHING SUPPORTS ARE WELDED TOGETHER
2) SMALL THROUGH HOLE IS TO INCORPORATE SAFETY PIN. NOT TO BE DRILLED UNTIL FINAL ASSEMBLY
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BASE</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>BUSHING SUPPORT</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>MOUNT</td>
<td>2</td>
</tr>
</tbody>
</table>

**Dimensions:***
- 2X \(\phi 31.75\) DRILL THRU AFTER WELDING
- \(\phi 7.94\) DRILL THRU ASSY AND GEAR FOR SAFETY PIN
- Hole to fit roller bushing
- 105.41 (or roller dia. + roller gap)

**Title:**
EWB Sorghum Press

**Base Weldment**

**Scale:** 1:3

**Unlesss Otherwise Specified:**
- Dimensions are in mm
- Two Place Decimal: \(\pm 0.5\)
- Three Place Decimal: \(\pm 0.2\)

**Drawing Information:**
- DRAWN: Cordeiro 3/12
- CHECKED
- ENG APPL.
- MFG APPR.
- Q.A.

**Comments:**
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±.5
THREE PLACE DECIMAL ±.2

MATERIAL:
MILD STEEL

DO NOT SCALE DRAWING

DRAWN
Cordeiro 3/12

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

EWB SORGHUM PRESS

BOTTOM ROLLER CAP

A

SCALE: 1:1

A
NOTE:
THROUGH HOLE NOT TO BE DRILLED
UNTIL PART IS WELDED TO BASE
**EWB SORGHUM PRESS**

**Crank Post**

Material: Steel

Dimensions are in mm

Tolerances:
- Two place decimal: ±0.5
- Three place decimal: ±0.2

Interpret geometric tolerancing per: [Interpretation]

<table>
<thead>
<tr>
<th>Material</th>
<th>Finish</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Title Block**

- **Title:** EWB SORGHUM PRESS
- **Crank Post**
- **Material:** Steel
- **Dimensions:**
  - Diameter: 24.89
  - Height: 120.14

**Scale:** 1:2

**Drawing Information**

- **Drawn by:** Cordeiro
- **Date:** 3/12

**Other Information**

- **Q.A.:**
- **Mfg. Appr.:**
- **Eng. Appr.:**

**Comments:**
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±.5
THREE PLACE DECIMAL ±.2

MATERIAL:
STEEL

DRAWN
Cordeiro 3/12

CHECKED
ENG APPR.
MFG APPR.
Q.A.

INTERPRET GEOMETRIC TOLERANCING PER:

4X R2.54 MIN

EWB SORGHUM PRESS

C RANK BASE

SIZE
A
DWG. NO.
A
REV
A

SCALE: 1:2
UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±.5
THREE PLACE DECIMAL ±.2

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: STEEL
FINISH

DRAWN: Cordeiro 3/12
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

EWB SORGHUM PRESS
TITLE: CRANK TOP

SIZE: A
DWG. NO. A
REV A

SCALE: 1:2

DO NOT SCALE DRAWING
NOTE
USE DIMENSIONS FROM 16 TOOTH GEAR DRAWING
SAME TOOTH GEOMETRY. DIFFERENT KEYWAY.
EWB SORGHUM PRESS

DRIVE ROLLER SHAFT

STEEL

DO NOT SCALE DRAWING

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ± 0.5
THREE PLACE DECIMAL ± 0.2

UNLESS OTHERWISE SPECIFIED:

SCALE: 1:8

REV A

DRAWING IN FIRST ANGLE

Q.A.

COMMENTS:

DO NOT SCALE DRAWING

NAME DATE

DRAWN Cordeiro 3/12
CHECKED
ENG APPR.
MFG APPR.

Q.A.

TOLERANCES:
TWO PLACE DECIMAL ± 0.5
THREE PLACE DECIMAL ± 0.2

DIMENSIONS ARE IN MM

2X ø 7.94
ø 11.11
0 10.32 24.61 101.60 120.65
508

ø 25.40
3.81
1.59
3.175

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±.5
THREE PLACE DECIMAL ±.2

MATERIAL
MILD STEEL

DRAWN
Cordeiro
3/12

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

EWB SORGHUM PRESS

TITLE:
ROLLER CAP 1

SIZE:
A

REV
A

SCALE: 1:1
DRILL AFTER ASSEMBLY COMPLETE
HOLE TO ACCOMODATE SCOTCH KEY

ϕ 7.94

ϕ 25.40

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±0.5
THREE PLACE DECIMAL ±0.2
NOTE:
FULL ASSY. REQUIRES TWO ROLLERS
DIMENSIONS ON THIS SHEET APPLY TO BOTH ROLLERS REGARDLESS OF SHAFT SIZE

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ROLLER TUBE</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>ROLLER CAP</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>ROLLER SHAFT OR DRIVE SHAFT</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>BOTTOM CAP</td>
<td>1</td>
</tr>
</tbody>
</table>

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .005

DRIVEN

DO NOT WELD ON THIS SIDE OF SHAFT

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

EWB SORGHUM PRESS

TITLE:
ROLLER WELDMENT

SIZE: A

REV A

SCALE: 1:4
DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ±.5
THREE PLACE DECIMAL ±.2

MATERIAL:
STEEL

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DRAWN: Cordeiro  3/12
CHECKED:  
ENG APPR:  
MFG APPR:  
Q.A.:

SCALE: 2:1

TITLE: EWB SORGHUM PRESS

SCOTCH KEY

REV: A

SIZE: A
NOTE:
PROTOTYPE FRAME CONSTRUCTED FROM 2" 90DEG ANGLE IRON 1/4" THICK. FRAME SUPPORTS CONSTRUCTED FROM LEFTOVER STOCK FROM BASE AND MOUNT CONSTRUCTION.

4X Ø 19.1 FOR STAKING

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ± .5
THREE PLACE DECIMAL ± .2

EWB SORGHUM PRESS
ASSEMBLY & FRAME

UNLESS OTHERWISE SPECIFIED:

<table>
<thead>
<tr>
<th>UNLESS OTHERWISE SPECIFIED</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMENSIONS ARE IN MM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOLERANCES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWO PLACE DECIMAL ± .5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THREE PLACE DECIMAL ± .2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CHECKED
ENG APPL.
MFG APPL.
Q.A.
COMMENTS:

DO NOT SCALE DRAWING

SCALE: 1:20 SHEET 1 OF 3
NOTE:
RETAIL COST USED FOR PURCHASING AND PRICING (2012 YEAR). WHOLESALE COST MAY BE LESS.

ITEM NO. | PART | QTY. | MATERIAL COST
--- | --- | --- | ---
1 | ROLLER TUBE | 2 | 38.26
2 | ROLLER CAP | 2 | 12.69
3 | ROLLER SHAFT | 1 | 11.53
4 | BOTTOM CAP | 2 | 12.68
5 | BASE | 2 | 12.26
6 | BUSHING SUPPORT | 4 | 30.06
7 | BUSHING | 4 | 39.44
8 | DRIVE GEAR | 1 | 14.64
9 | 16 TOOTH GEAR | 1 | 14.64
10 | MOUNT | 4 | 9.81
11 | DRIVE SHAFT | 1 | 15.37
12 | SCOTCH KEY | 1 | .73
13 | CRANK BASE | 1 | 8.59
14 | CRANK BLOCK | 1 | 7.91
15 | CRANK POST | 2 | 10.76
16 | CRANK TOP | 1 | 4.29
17 | FRAME | 2 | 116.43
18 | BOLT | 8 | 4.23
19 | NUT | 8 | 3.82
20 | SQUARE KEY | 1 | .78
21 | DOWEL PIN | 2 | 1.47
22 | SAFETY SHROUD (NOT PICTURED) | 1 | 11.54

TOTAL RETAIL COST: $ 381.93
SQUARE KEY

DIMENSIONS ARE IN MM
TOLERANCES:
TWO PLACE DECIMAL ± .5
THREE PLACE DECIMAL ± .2

KEY STEEL

UNLESS OTHERWISE SPECIFIED:

DO NOT SCALE DRAWING

DRAWN: Cordeiro 3/12
CHECKED
ENG APPL.
MFG APPL.
Q.A.
COMMENTS:

SCALE: 3:1

EWB SORGHUM PRESS

TITLE:

A