



**Satish Lele**

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## LISP Program for Jib Crane

This is a LISP based program for Drawing of Jib Crane, with user friendly dialog boxes, which is an add-on for any CAD program for developing GA drawing as well as component wise drawings with Bill of Material and weights of all components for Top and Bottom Jib Crane. The program asks for all parameters and then automatically draws separate drawings for each component giving Bill of materials for that component as well as weight of each sub-component and also total weight. LISP Program for Jib Crane then draws GA Drawing with total weight of Jib Crane. The Package gives all minor details at Quotation Stage itself and this helps to quote in most competitive manner. LISP Program for Jib Crane can draw a Jib Crane up to a span of 6 meters, lift of 4 meters, and lifting load of 3 tons.

Jib Crane package Bought so far by 14 parties

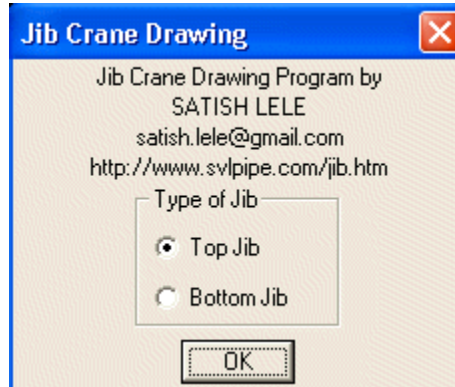
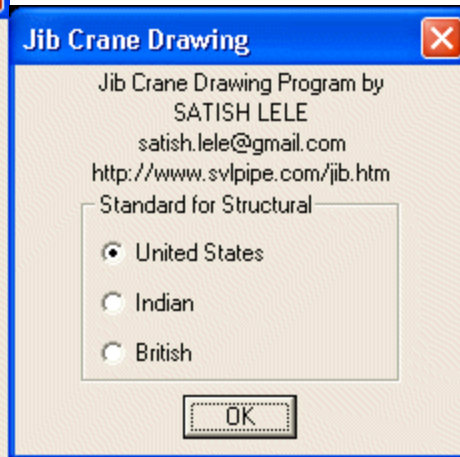
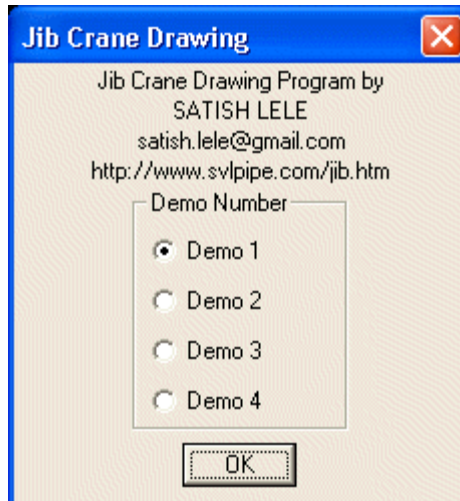
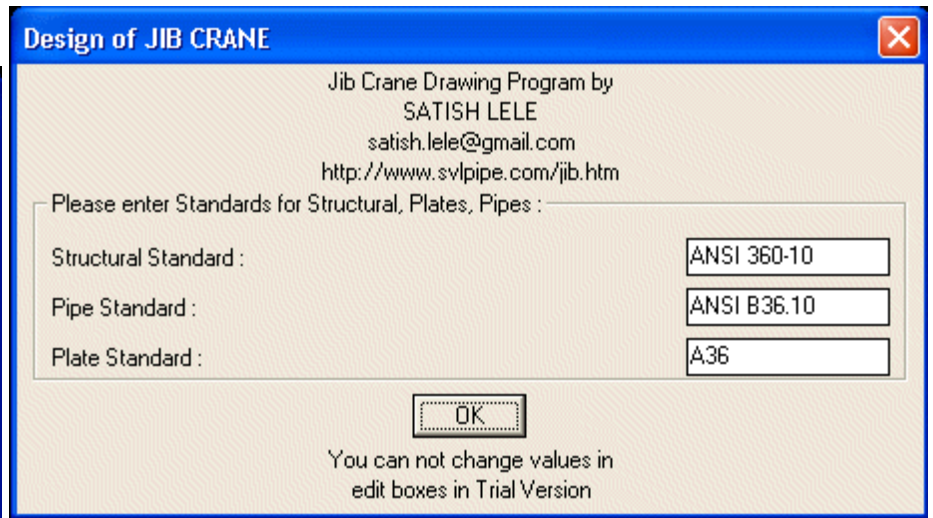
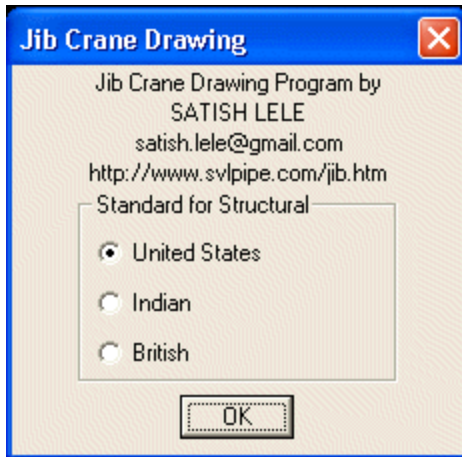
Three Structural members, such as Beams, Channels and Angles as well as Plates and Pipe are used to fabricate a jib crane. You can select American, British or Indian standard for sizes of these Structural members. The sizes of Structural members as per the standard are then shown in dialog boxes. You can even change these values. If you are choosing standard of your country, you can fill in sizes of structural members as per standards of your country.

If you select American Standard all values in dialog boxes will be shown in foot-inches and all drawings will be created in foot-inch dimensions. If you select British or Indian Standard all values in dialog boxes will be shown in metric system and all drawings will be created in millimeter dimensions.

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I have prepared a Trial Program which shows 4 cases for the Top and Bottom beams. Ask us for free Demo. To run the demo copy jib\_demo.zip file in acad support directory (or any other directory defined in CAD path settings) and unzip it. If you copy them to some other folder, in CAD, click on tools ->Options (or Preferences) -> Files -> + of Support File Search Path -> Add -> Browse -> Select the folder. All files from zip file should be in this folder. LISP Program for Jib Crane contains jib.lsp, jib.del program files and A1, A2, A3, A4 prototype drawings. Load jib.lsp by typing at command prompt (load "jib.lsp") and press <enter>. At command prompt type jib and press <enter> and program will start. This is a full program which runs for 4 options.

Programs asks for parameters in the following dialog boxes, and based on these values, LISP Program for Jib Crane draws the drawings.



**Design of JIB CRANE**

Jib Crane Drawing Program by  
 SATISH LELE  
 satish.lele@gmail.com  
 http://www.svlpipe.com/jib.htm

Please enter Drawing data:

Clients Name :

Designed by:

Drawn by:

Checked by:

Appd by:

Date:

Drawing No.:

You can not change values in  
 edit boxes in Trial Version

**Jib Crane Drawing**

Jib Crane Drawing Program by  
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 http://www.svlpipe.com/jib.htm

Select Channel

- 3"
- 4"
- 5"
- 6"
- 7"
- 8"
- 9"
- 10"
- 12"
- 13"
- 15"
- 18"

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**Crane data Top Jib :**

Jib Crane Drawing Program by  
 SATISH LELE  
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 http://www.svlpipe.com/jib.htm

Crane radius :

Lift Height :

Hoist Capacity :

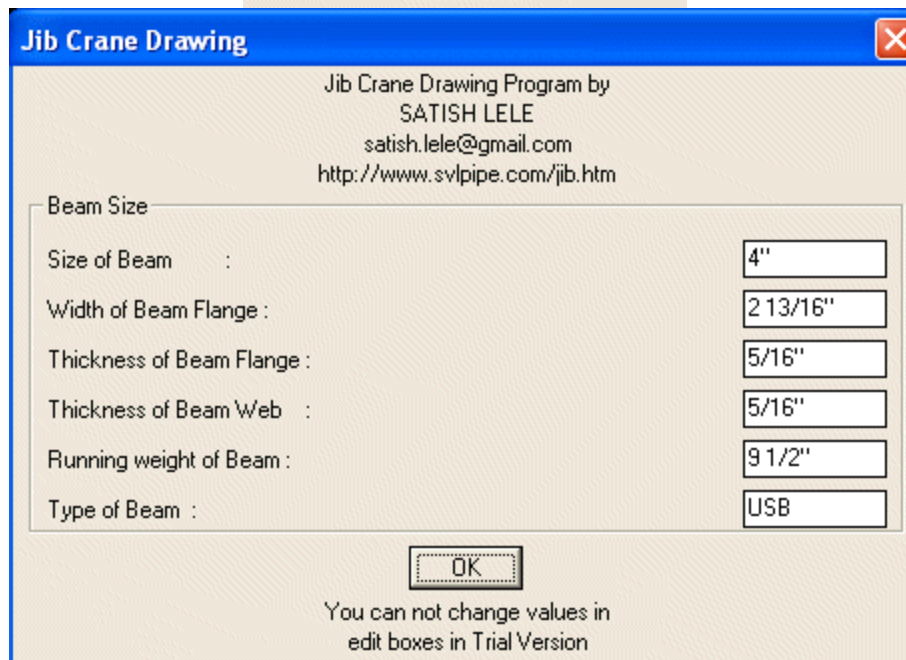
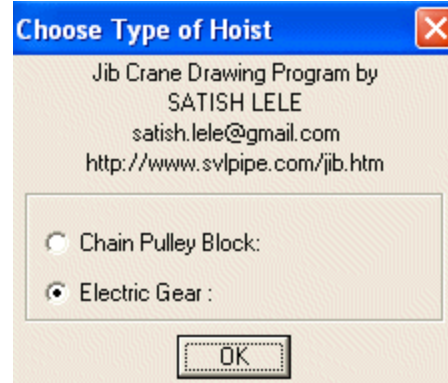
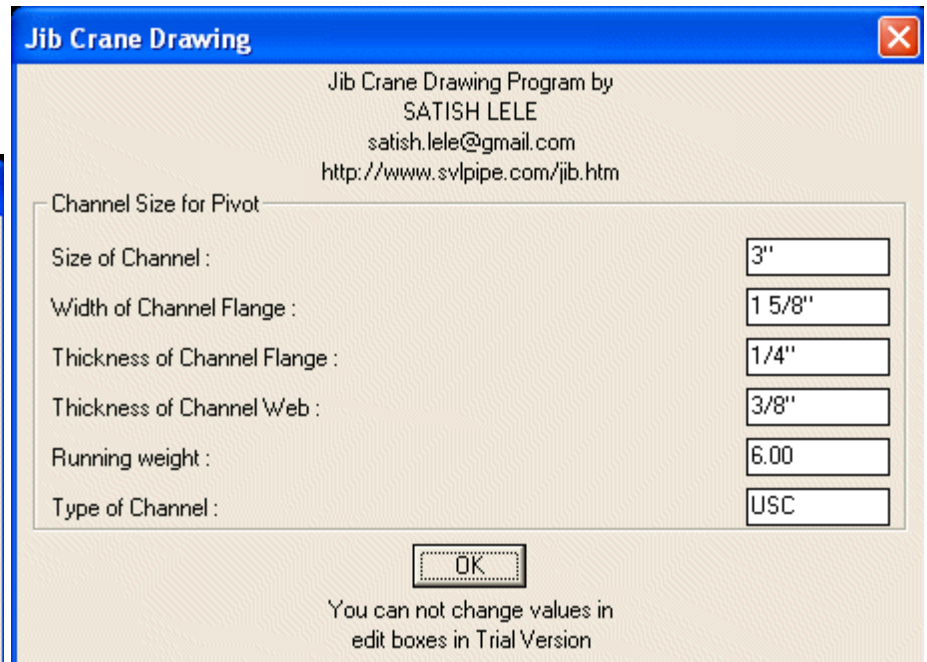
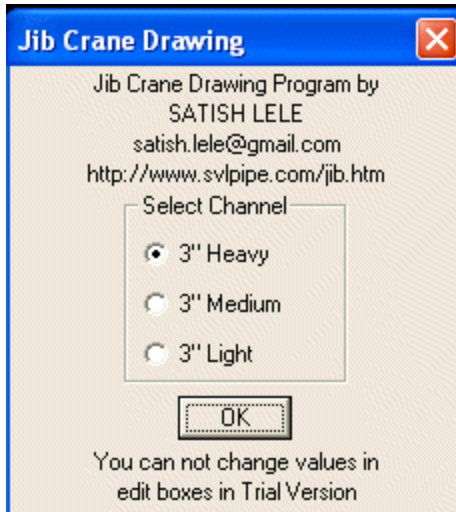
Bearing CL Dist :

Pivot CL Distance :

Thk Pivot Stiffner :

Type of Jib :

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 edit boxes in Trial Version



**Crane data Top Jib :** ✖

Jib Crane Drawing Program by  
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<http://www.svlpipe.com/jib.htm>

Beam Details :	
Beam Height :	<input type="text" value="4"/>
Flange Width :	<input type="text" value="2 13/16"/>
Flange thickness :	<input type="text" value="5/16"/>
Web Thickness :	<input type="text" value="5/16"/>
Running Weight :	<input type="text" value="9.50"/>
Type of Beam :	<input type="text" value="USB"/>
Plate Width :	<input type="text" value="2"/>
Plate Thk :	<input type="text" value="5/16"/>

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**Crane data Top Jib :** ✖

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Beam Details :		Angle Details :	
Beam Height :	<input type="text" value="4"/>	Size of Angle :	<input type="text" value="1 1/2"/>
Flange Width :	<input type="text" value="2 13/16"/>	Thickness of Angle :	<input type="text" value="3/16"/>
Flange thickness :	<input type="text" value="5/16"/>	Running Weight of Angle :	<input type="text" value="2.12"/>
Web Thickness :	<input type="text" value="5/16"/>	Type of Angle :	<input type="text" value="USA"/>
Running Weight :	<input type="text" value="9.50"/>		
Type of Beam :	<input type="text" value="USB"/>		

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**Crane data Top Jib :**

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Beam Details :	Channel Details :
Beam Height : <input type="text" value="4"/>	Size of Channel : <input type="text" value="4"/>
Flange Width : <input type="text" value="2 13/16"/>	Flange Width : <input type="text" value="1 3/4"/>
Flange thickness : <input type="text" value="5/16"/>	Flange thickness : <input type="text" value="5/16"/>
Web Thickness : <input type="text" value="5/16"/>	Web Thickness : <input type="text" value="5/16"/>
Running Weight : <input type="text" value="9.50"/>	Running Weight : <input type="text" value="7.25"/>
Type of Beam : <input type="text" value="USB"/>	Type of Channel : <input type="text" value="USC"/>

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**Plate data:**

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<http://www.svlpipe.com/jib.htm>

Plate Width :	<input type="text" value="2"/>
Plate Thk :	<input type="text" value="5/16"/>

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**Jib Crane Drawing**

Jib Crane Drawing Program by  
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<http://www.svlpipe.com/jib.htm>

Select Beam

- 3"
- 4"
- 5"
- 6"
- 7"
- 8"
- 10"
- 12"
- 15"
- 18"
- 20"

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**Jib Crane Drawing**

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Select Beam

- 4" Heavy
- 4" Light

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**Bearing data:** ✖

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Top Bearing		Bot Bearing	
Bearing Number :	<input type="text" value="6307ZZ"/>	Bearing Number :	<input type="text" value="30205"/>
Bearing Make :	<input type="text" value="SKF"/>	Bearing Make :	<input type="text" value="SKF"/>
Bearing ID :	<input type="text" value="1 3/8"/>	Bearing ID :	<input type="text" value="1"/>
Bearing OD :	<input type="text" value="3 1/8"/>	Bearing OD :	<input type="text" value="2"/>
Bearing Thk :	<input type="text" value="1 1/16"/>	Bearing Thk :	<input type="text" value="7/8"/>
Bearing Wt :	<input type="text" value="1.01"/>	Bearing Wt :	<input type="text" value="0.33"/>
		Outer Race Width :	<input type="text" value="1/2"/>

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**Jib Crane Drawing** ✖

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Suggested Pillar Base Plate

- Base Plate Size 20 inch x 20 inch
- Base Plate Size 24 inch x 24 inch
- Base Plate Size 30 inch x 30 inch
- Base Plate Size 36 inch x 36 inch
- Base Plate Size 46 inch x 46 inch
- Base Plate Size 56 inch x 56 inch

Please enter Baseplate data:



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Length of Base Plate :   
Distance Between End Bolts :   
Thikness of Top Plate :   
Thickness of Base Plate :   
Bolt Hole Diameter :   
Number of Bolts :

Size of Pillar at Base :   
Size of Pillar at Top :   
Pillar Plate Thk :

OK

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Please enter Bracket plate data:



Jib Crane Drawing Program by  
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satish.lele@gmail.com  
<http://www.svlpipe.com/jib.htm>

Thickness of Bracket Plate :   
Thickness of Ribs :   
Bracket Plate Thickness :   
Number of Holes :   
Diameter of Holes :   
Length of Plate :   
Width of Plate :   
Horizontal Distance between Bolts :   
Spacing between Holes :   
Bolt Size :   
Number of Horizontal Ribs :   
Distance of Top Bearing from Top :   
Distance of Bottom Bearing from Bottom :

OK

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Jib Crane Drawing



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Suggested Pivot Bracket Plate

- Bracket Plate Size 14.5 inch x 14.5 inch
- Bracket Plate Size 16.5 inch x 16.5 inch
- Bracket Plate Size 18.5 inch x 18.5 inch
- Bracket Plate Size 22 inch x 22 inch
- Bracket Plate Size 26 inch x 26 inch
- Bracket Plate Size 32 inch x 32 inch

OK



**Hoist data:**

Jib Crane Drawing Program by  
SATISH LELE  
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<http://www.svlpipe.com/jib.htm>

Lifting Equipment Type :	750 Lb
Lifting Equipment Model :	EH500
Weight of Hoist :	100.00
Head Room :	1'-6"
End Approach :	5"

OK

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**Choose Type of Hoist**

Jib Crane Drawing Program by  
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Chain Pulley Block:  
 Electric Gear :

OK

**Hoist data:**

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Hoist Speed :	5
Travel Speed :	5

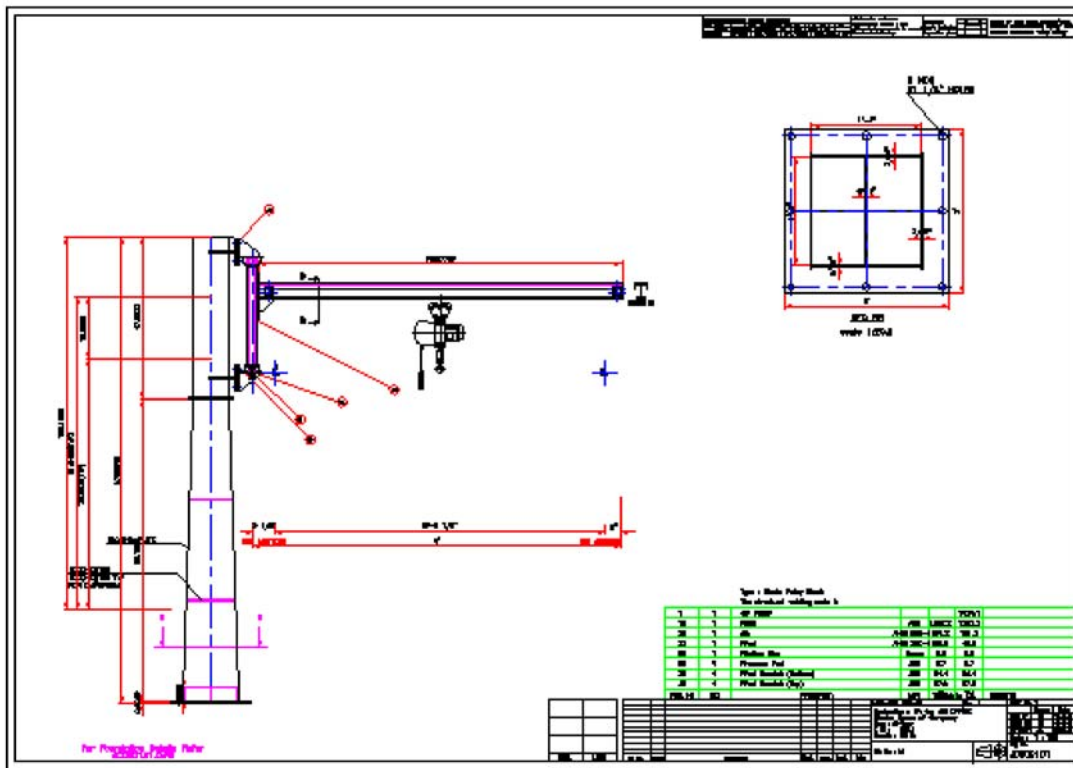
Brake Provided

OK

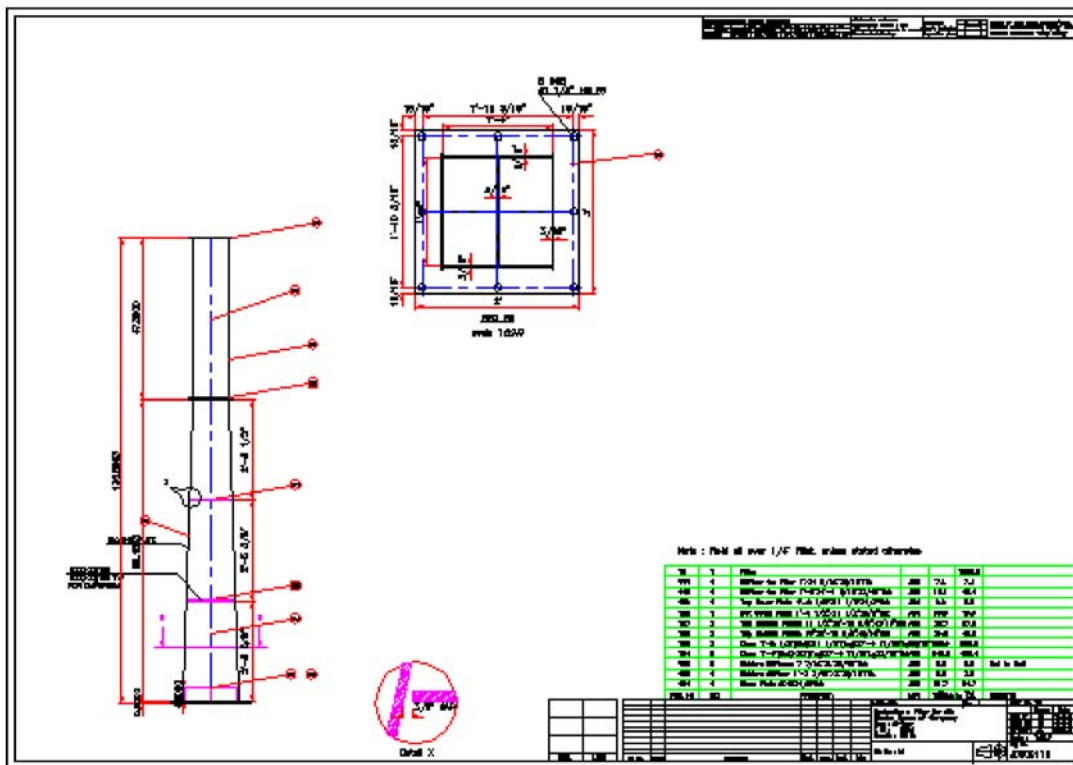
You can not change  
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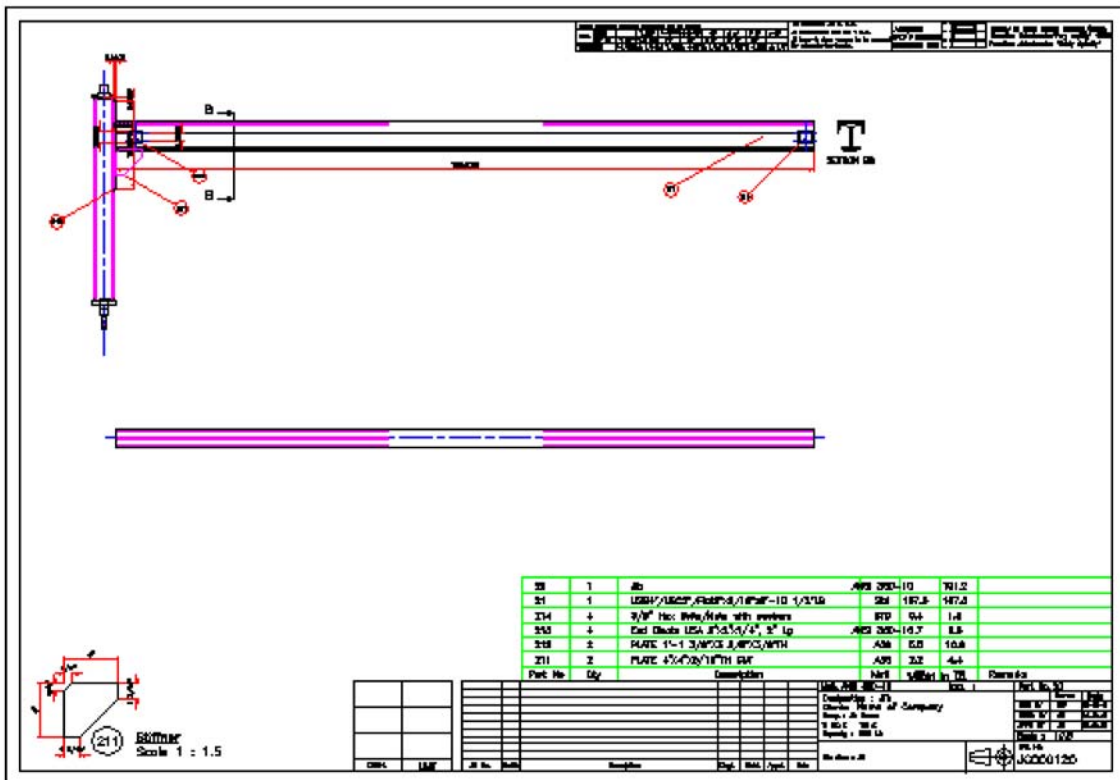
Drawings developed by my program are as follows :



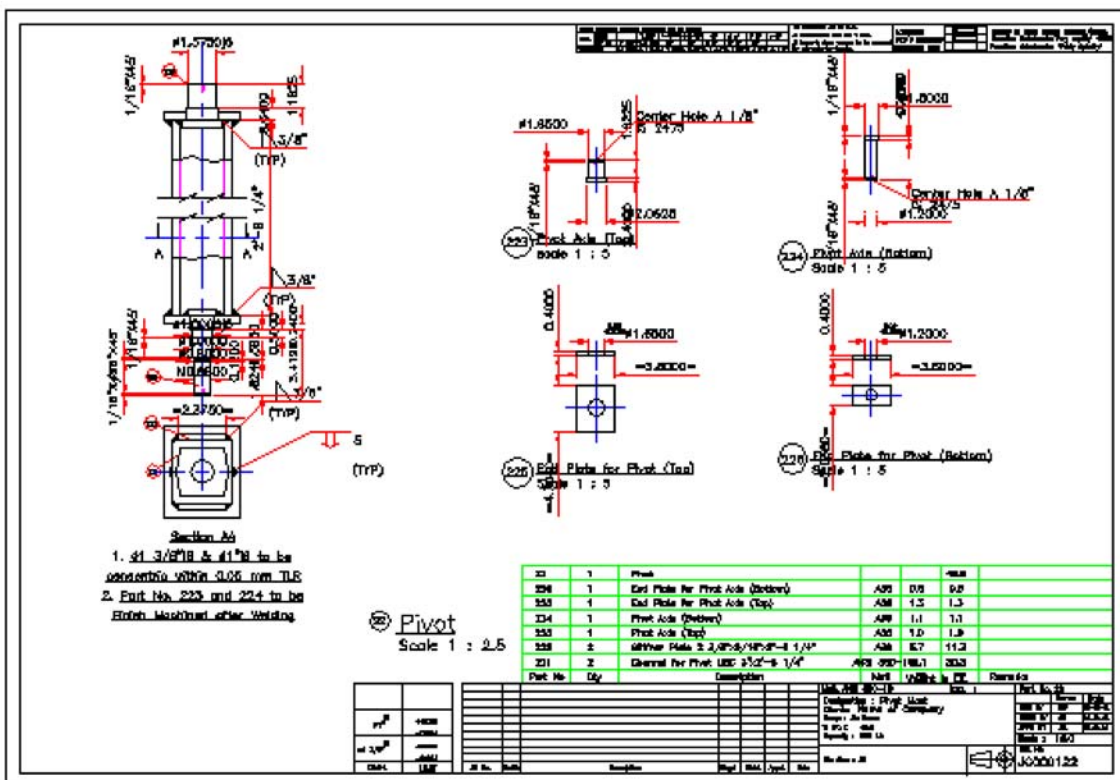
A Complete GA Drawing of Jib crane.



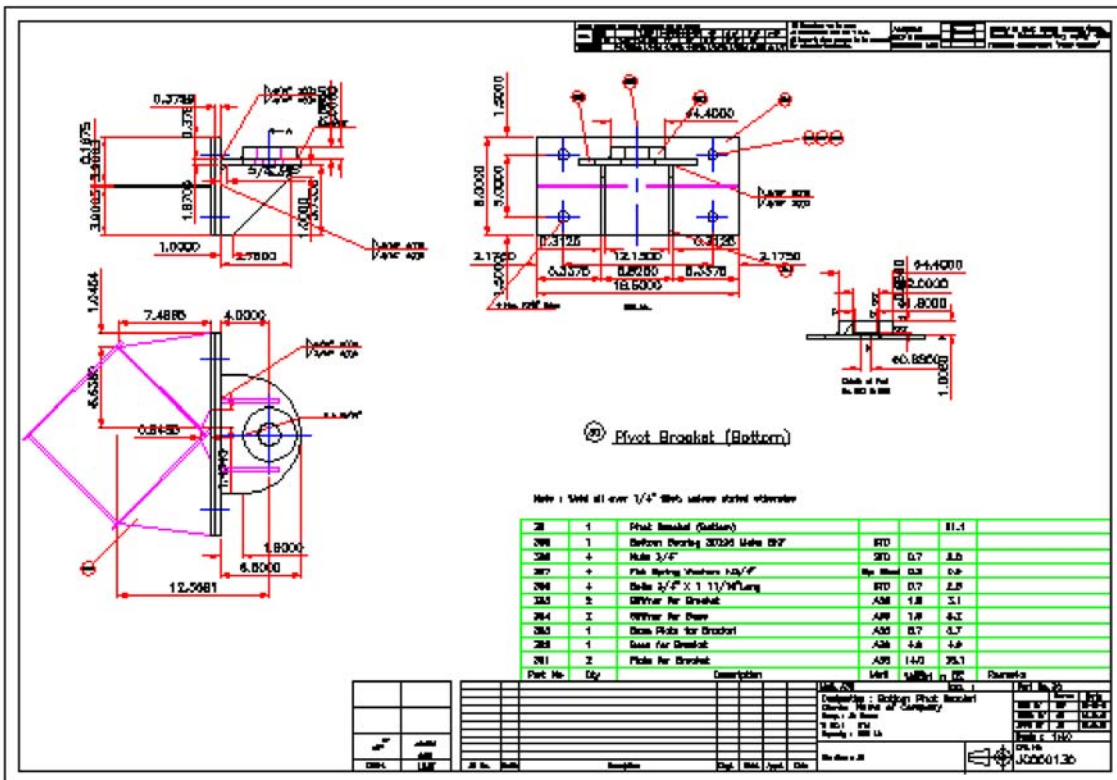
A Drawing of a Fabricated Pillar.



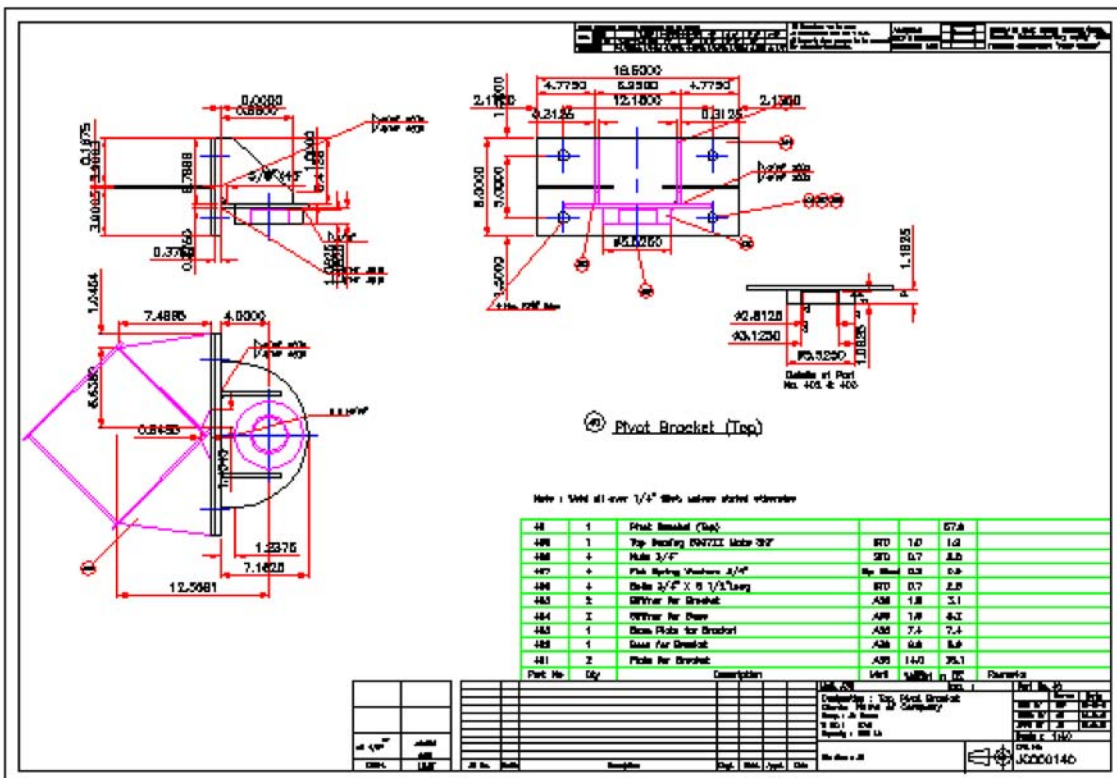
A Drawing of Jib Frame.



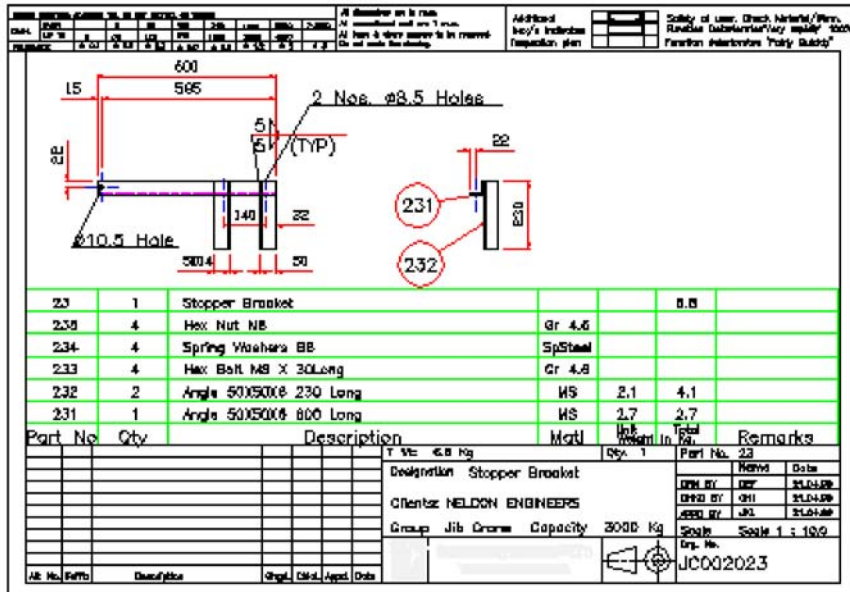
A Drawing of Pivot.



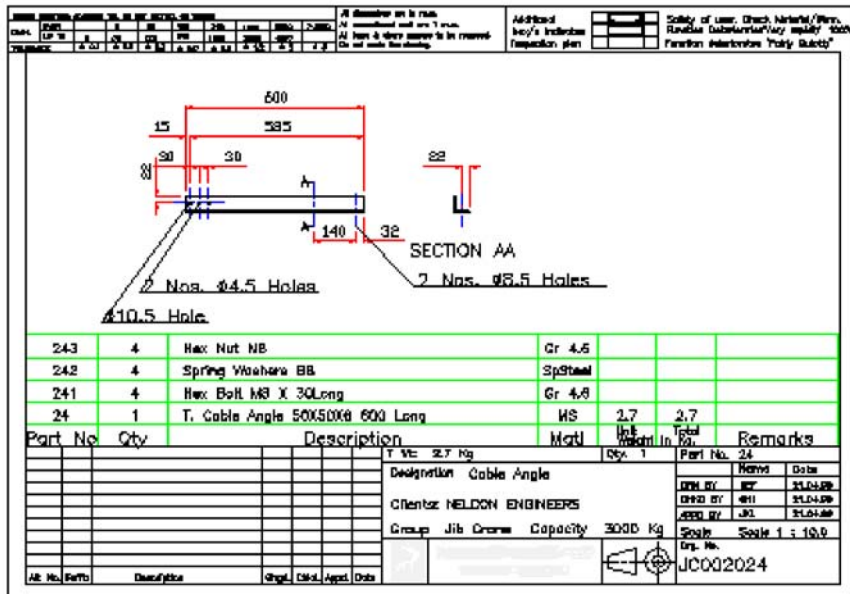
A Drawing of Bottom Bracket.



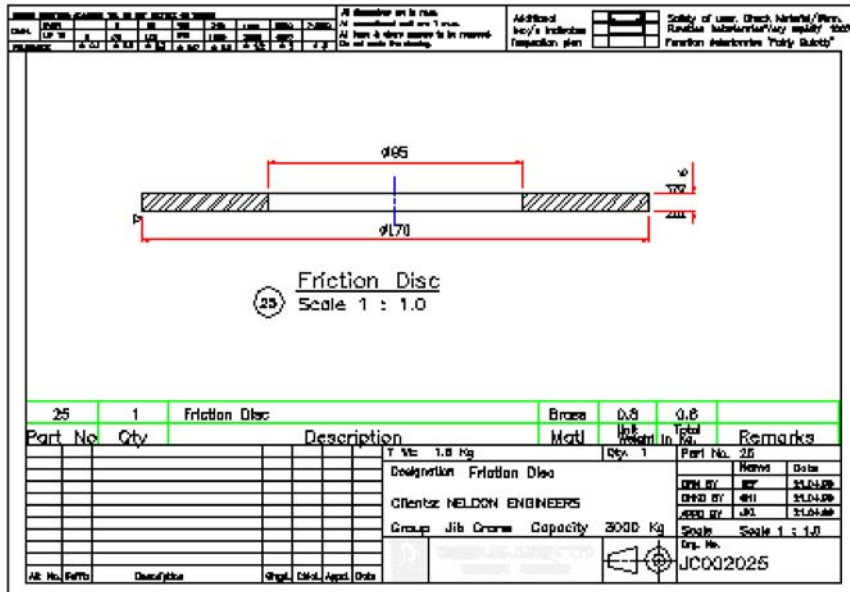
A Drawing of Top Bracket.



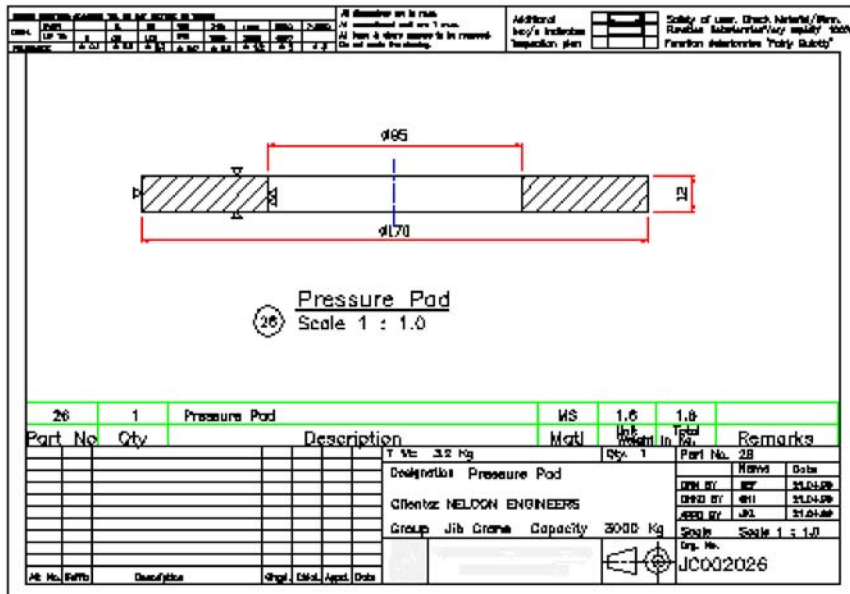
A Drawing of Stopper Bracket.



A Drawing of Cable Angle.



A Drawing of Friction Disc.



A Drawing of Pressure Pad.

