



**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 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.dcl 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.

**Jib Crane Drawing** [X]

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

Standard for Structural

United States  
 Indian  
 British

OK

**Design of JIB CRANE** [X]

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

Please enter Standards for Structural, Plates, Pipes :

Structural Standard : BS4  
Pipe Standard : BS3604  
Plate Standard : BS1449

OK

**Jib Crane Drawing** [X]

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SATISH LELE  
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Demo Number

Demo 1  
 Demo 2  
 Demo 3  
 Demo 4

OK

**Jib Crane Drawing** [X]

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Standard for Structural

United States  
 Indian  
 British

OK

**Jib Crane Drawing** [X]

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Type of Jib

Top Jib  
 Bottom Jib

OK

**Design of JIB CRANE** [X]

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

Please enter Drawing data:

Clients Name : Name of Company  
Designed by: ABC  
Drawn by: DEF  
Checked by: GHI  
Appd by: JKL  
Date: 10-10-12  
Drawing No.: JC0001

OK

You can not change values in  
edit boxes in Trial Version

**Choose Pillar Type** [X]

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

Pipe  
 Fabricated

OK

**Crane data Top Jib :**

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

Crane radius :	3000
Lift Height :	2700
Hoist Capacity :	250 Kg
Bearing CL Dist :	800
Pivot CL Distance :	100
Thk Pivot Stiffner :	8
Type of Jib :	TOP

OK

You can not change values in edit boxes in Trial Version

**Jib Crane Drawing**

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

Select Channel

- 76
- 102
- 127
- 152
- 178
- 203
- 229
- 254
- 305
- 381
- 431

OK

You can not change values in edit boxes in Trial Version

**Jib Crane Drawing**

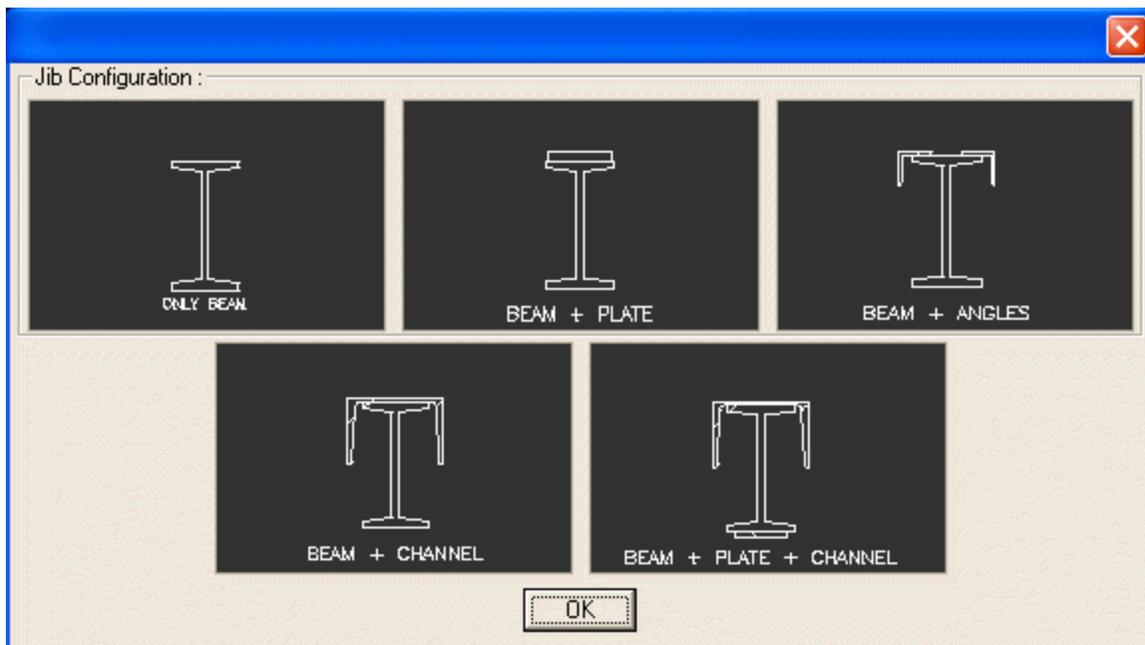
Jib Crane Drawing Program by  
SATISH LELE  
satish.lele@gmail.com  
http://www.svlpipe.com/jib.htm

Channel Size for Pivot

Size of Channel :	76
Width of Channel Flange :	38
Thickness of Channel Flange :	7
Thickness of Channel Web :	5
Running weight :	6.71
Type of Channel :	BSC

OK

You can not change values in edit boxes in Trial Version



Jib Crane Drawing

Jib Crane Drawing Program by  
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satish.lele@gmail.com  
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Beam Size

Size of Beam :

Width of Beam Flange :

Thickness of Beam Flange :

Thickness of Beam Web :

Running weight of Beam :

Type of Beam :

OK

You can not change values in edit boxes in Trial Version

Crane data Top Jib :

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

Beam Details :

Beam Height :

Flange Width :

Flange thickness :

Web Thickness :

Running Weight :

Type of Beam :

Plate Width :

Plate Thk :

OK

You can not change values in 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 :	Angle Details :
Beam Height : <input type="text" value="102"/>	Size of Angle : <input type="text" value="40"/>
Flange Width : <input type="text" value="102"/>	Thickness of Angle : <input type="text" value="4"/>
Flange thickness : <input type="text" value="10"/>	Running Weight of Angle : <input type="text" value="2.42"/>
Web Thickness : <input type="text" value="10"/>	Type of Angle : <input type="text" value="BSA"/>
Running Weight : <input type="text" value="23.00"/>	
Type of Beam : <input type="text" value="BSB"/>	

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**Crane data Top Jib :**

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

Beam Details :	Channel Details :
Beam Height : <input type="text" value="102"/>	Size of Channel : <input type="text" value="76"/>
Flange Width : <input type="text" value="102"/>	Flange Width : <input type="text" value="38"/>
Flange thickness : <input type="text" value="10"/>	Flange thickness : <input type="text" value="7"/>
Web Thickness : <input type="text" value="10"/>	Web Thickness : <input type="text" value="5"/>
Running Weight : <input type="text" value="23.00"/>	Running Weight : <input type="text" value="6.71"/>
Type of Beam : <input type="text" value="BSB"/>	Type of Channel : <input type="text" value="BSC"/>

You can not change values in edit boxes in Trial Version

**Plate data:**

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

Plate Width : <input type="text" value="50"/>
Plate Thk : <input type="text" value="6"/>

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**Jib Crane Drawing** ✕

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 SATISH LELE  
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Select Beam

- 76 mm
- 89 mm
- 102 mm
- 114 mm
- 127 mm
- 152 mm
- 178 mm
- 203 mm
- 254 mm
- 305 mm
- 356 mm
- 406 mm
- 457 mm
- 533 mm

You can not change values in  
edit boxes in Trial Version

**Jib Crane Drawing** ✕

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Select Beam

- Heavy
- Light

You can not change values in  
edit boxes in Trial Version

**Bearing data:** ✕

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

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="35"/>	Bearing ID : <input type="text" value="25"/>
Bearing OD : <input type="text" value="80"/>	Bearing OD : <input type="text" value="52"/>
Bearing Thk : <input type="text" value="27"/>	Bearing Thk : <input type="text" value="22"/>
Bearing Wt : <input type="text" value="0.46"/>	Bearing Wt : <input type="text" value="0.15"/>
	Outer Race Width : <input type="text" value="13"/>

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Suggested Pillar Base Plate

- Base Plate Size 500 x 500
- Base Plate Size 600 x 600
- Base Plate Size 750 x 750
- Base Plate Size 900 x 900
- Base Plate Size 1150 x 1150
- Base Plate Size 1400 x 1400

OK

**Please enter Baseplate data:**

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

Length of Base Plate :	<input type="text" value="600"/>	Size of Pillar at Base :	<input type="text" value="400"/>
Distance Between End Bolts :	<input type="text" value="510"/>	Size of Pillar at Top :	<input type="text" value="250"/>
Thikness of Top Plate :	<input type="text" value="10"/>	Pillar Plate Thk :	<input type="text" value="5"/>
Thickness of Base Plate :	<input type="text" value="12"/>		
Bolt Hole Diameter :	<input type="text" value="27"/>		
Number of Bolts :	<input type="text" value="8"/>		

OK

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**Jib Crane Drawing**

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

Suggested Pivot Bracket Plate

- Bracket Plate Size 360 x 360
- Bracket Plate Size 410 x 410
- Bracket Plate Size 460 x 460
- Bracket Plate Size 550 x 550
- Bracket Plate Size 650 x 650
- Bracket Plate Size 800 x 800

OK

**Please enter Bracket plate data:**

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

Thickness of Bracket Plate :	10
Thickness of Ribs :	8
Bracket Plate Thickness :	10
Number of Holes :	4
Diameter of Holes :	22
Length of Plate :	410
Width of Plate :	200
Horizontal Distance between Bolts :	330
Spacing between Holes :	120
Bolt Size :	20
Number of Horizontal Ribs :	2
Distance of Top Bearing from Top :	160
Distance of Bottom Bearing from Bottom :	40

OK

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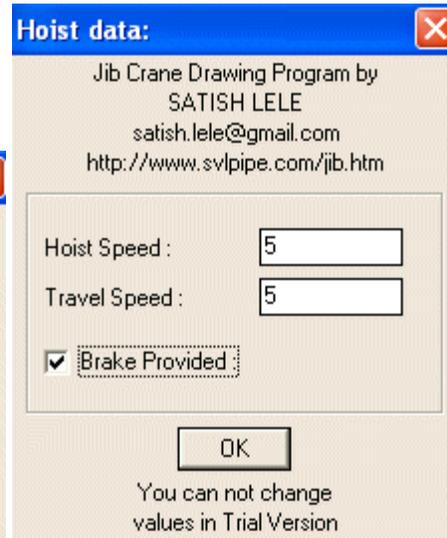
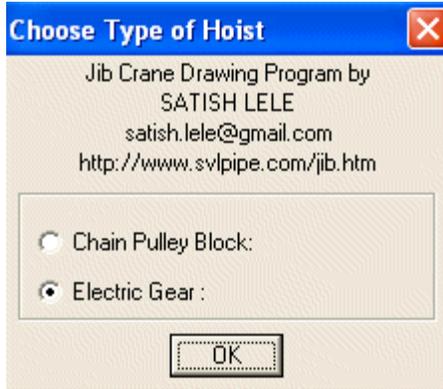
**Hoist data:**

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

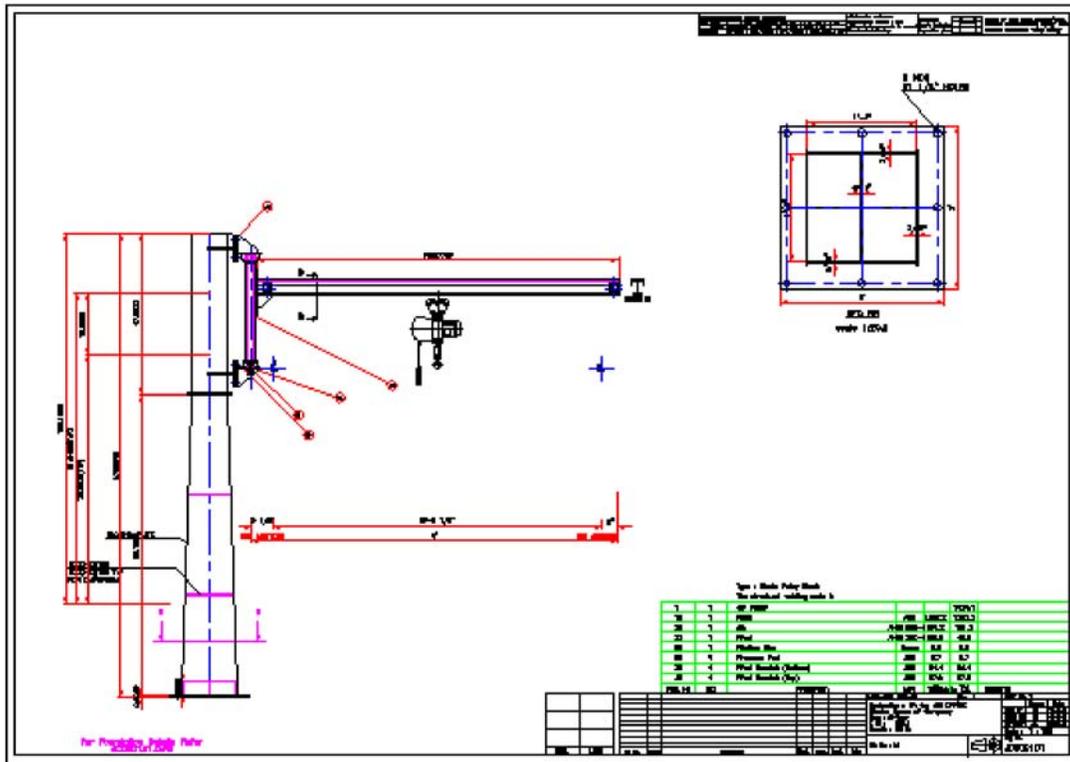
Lifting Equipment Type :	500 Kg
Lifting Equipment Model :	EH500
Weight of Hoist :	47.00
Head Room :	450
End Approach :	125

OK

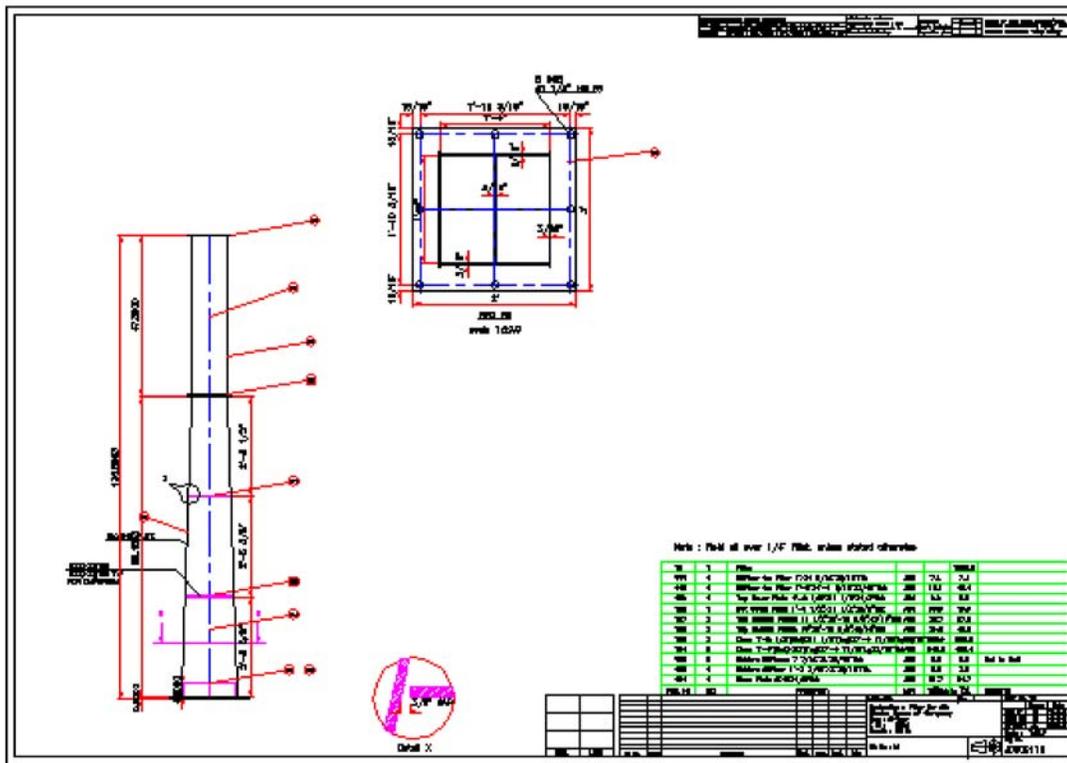
You can not change values in edit boxes in Trial Version



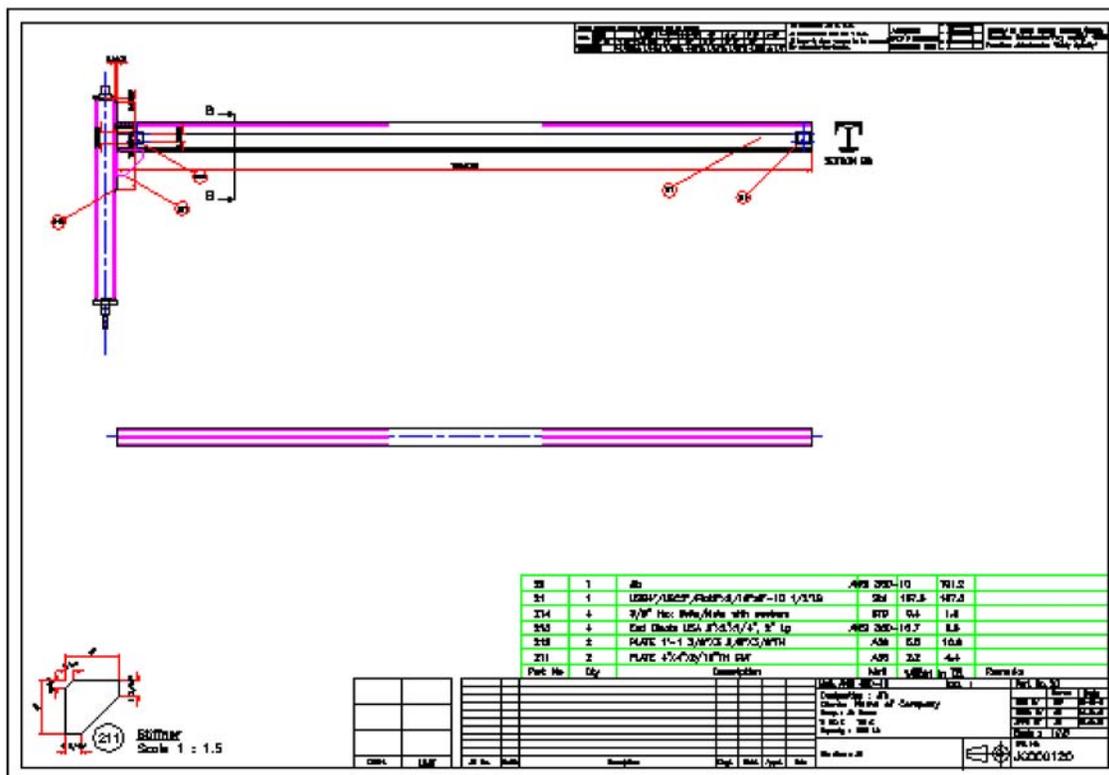
Drawings developed by my program are as follows :



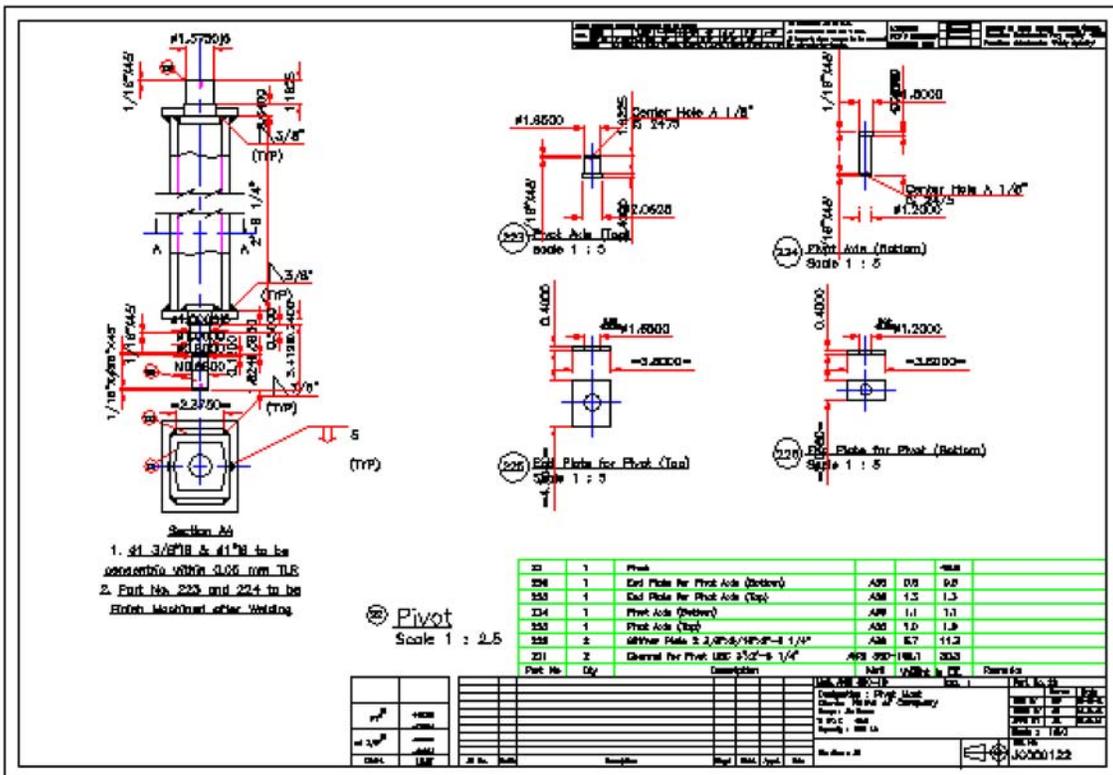
A Complete GA Drawing of Top Jib crane.



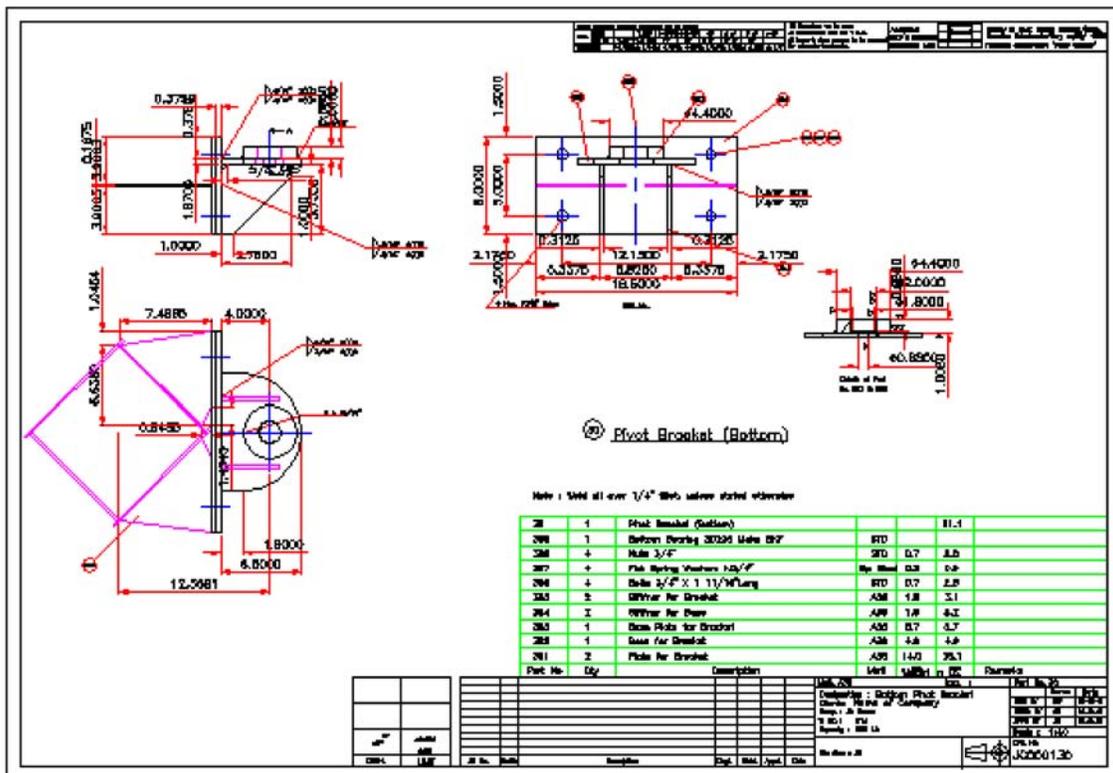
A Drawing of a Fabricated Pillar.



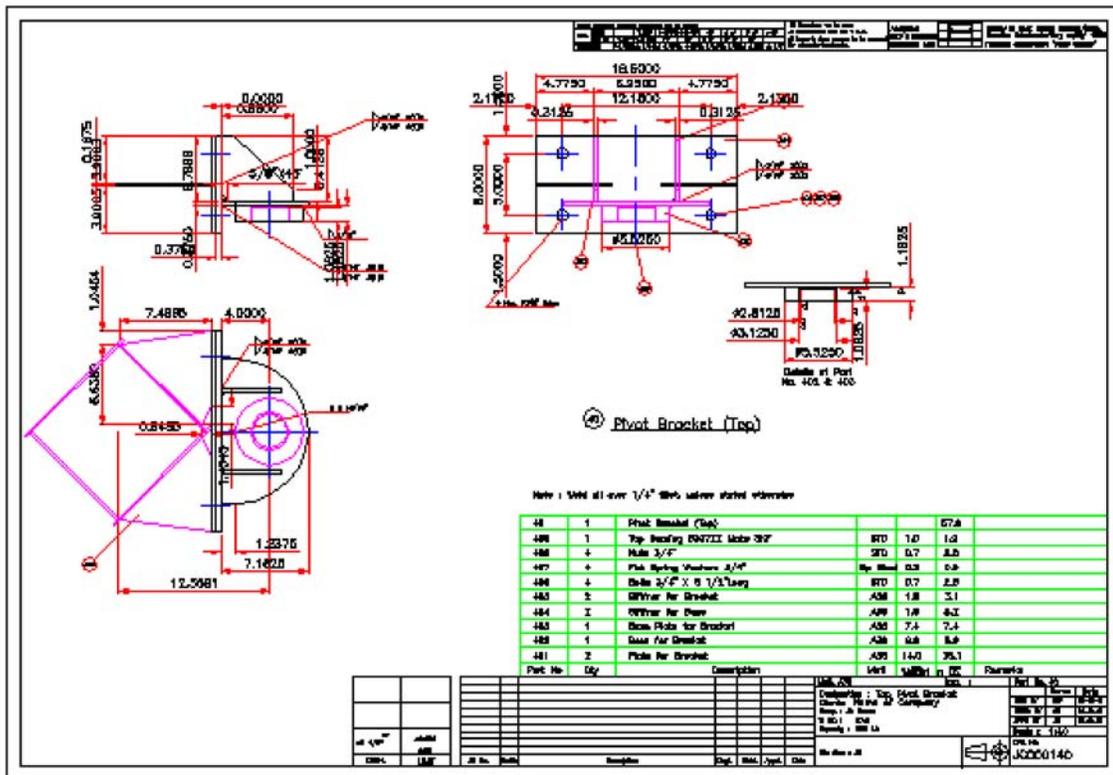
A Drawing of Top Jib.



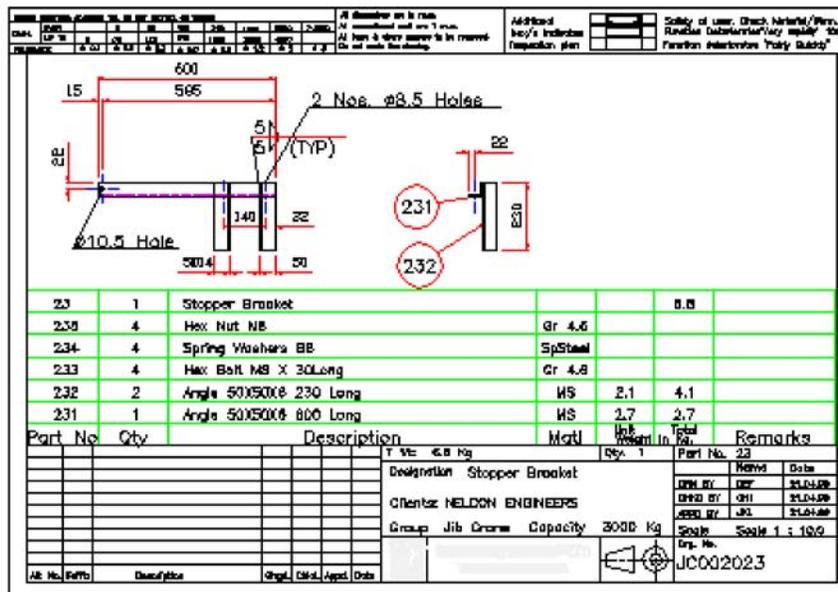
A Drawing of Pivot.



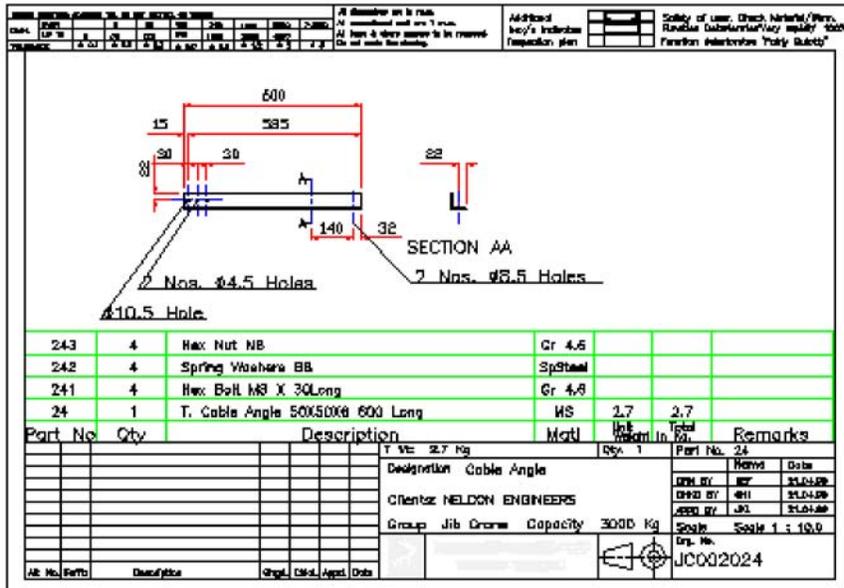
A Drawing of Bottom Bracket.



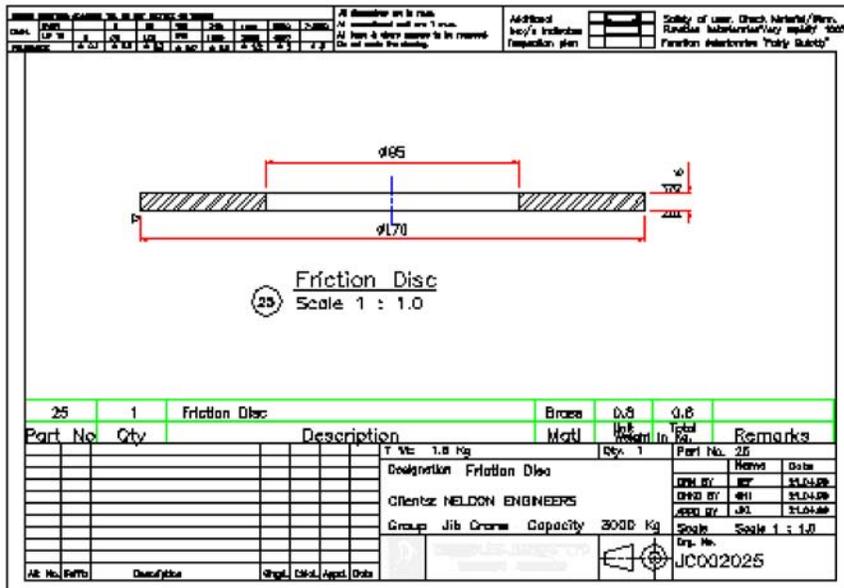
A Drawing of Top Bracket.



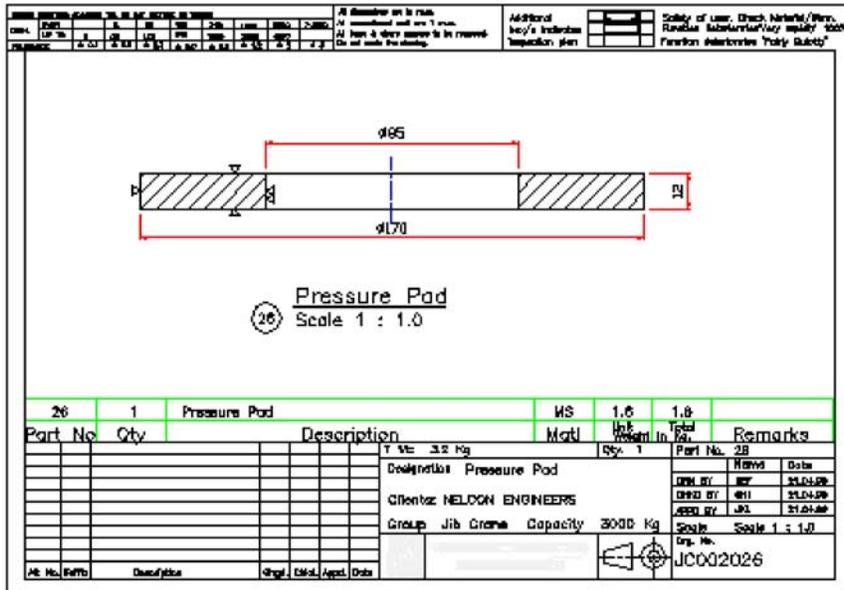
A Drawing of Stopper Bracket.



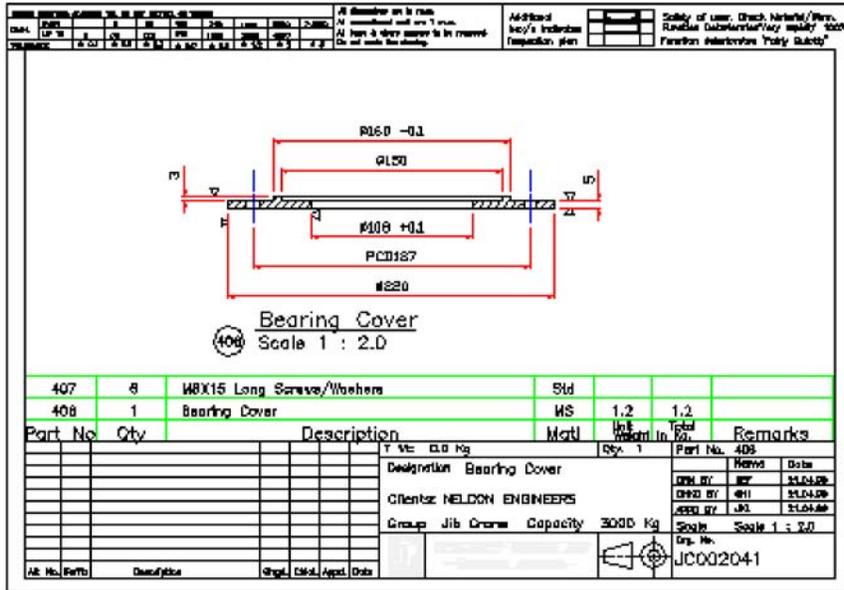
A Drawing of Cable Angle.



A Drawing of Friction Disc.



A Drawing of Pressure Pad.



A Drawing of Bearing Cover.

Part No	Qty	Description	Unit	Notes	Cost
1	1	ASSEMBLY			
2	1	PLATE			
3	1	PLATE			
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