

JLG[®] BIM Content Library

User Guide - Boom Lifts



Figure 1: The JLG Boom Lift Family

LOADING THE MODELS

How to Load the Boom Lift Family

It is recommended the steps outlined below are followed to properly load the BIM component into a project.

- 1. Open a Revit Project File (.RVT) and navigate to the Plan View
- 2. Go to the 'Insert' tab on the Revit ribbon and select 'Load Family'



Figure 2: Loading the Family into a Project

- 3. Navigate to the location of the downloaded JLG[®] Boom Lift family component (RFA file)
- 4. Click 'OK' to load the component into the project

The family is now copied and embedded into the project. It can be selected from the components button located on the 'Architecture' tab on the main Revit Ribbon.



ACCESSING PRODUCT INFORMATION

How to Access the Data for the Boom Lift Family

To access the data embedded into the component, simply select the desired component and click the 'Edit Type' button at the head of the 'Properties' bar. This is typically located on the left-hand side of the screen.

All the product-specific information for the component selected is now displayed. From here, the component can be selected, as well as links to JLG.com to access documentation and product specifications



Figure 3: Accessing Additional Data

Samilys	3.6_460AU_Acticulating Boon Lift	•) [Load		
Current .	Minister W. Banker W.	2.0	Dunicate		
2221	Contraction of the second s				
		Brane			
ype r a a	Paiaroeter	Value			
General	August and A	Concernant della			
Antiquisti	ing Sk	4 m 1 m, 0.24 mg	-		
Hydraule	Platform Rotator	100 Centres			
Pletform	Sele Entry	30 x 72 in (0.36 x 1.8	3m)		
Receptac	is in the Flatform	110V-AC			
Let Alarn	n Indicator Light	5 Degree			
Data					
Auxiliary	Paver	12V-DC			
Aule Csci	ilation	4 in 10.16 cm			
DesetErs	one	Deuts D2914 Tier 4 Final 49 hp			
Drive Speed		45 mph 1.24 km/hr			
Dual Fuel Engine		GM Vortec 3000 NSPEL 82 hp 6L kc			
fuel Tani	k Capacity	28 gal. 64 L			
Gadeshi	Py .	45%			
Hurigont	at Outreach	25 ft 7.62m			
1è		4/t1in.1.24M	ml		
Max Grou	unit Braring Pressure (With Pneumatic Tures)	45 ps J.W kg/cml			
System C	apacity .	36 gal. 143.8 t			
Tarsk Cap	ucky	36 pai. 1 8, 27 L			
Tores Opt	nel 12 x 36.5 Log Fread Tr		fires		
Tires Star	ndard	33/1550 x 16.3 Super	upervide		
Luning	adui Outside 15 It # in-4.78m				
Platform	form Cepacity Unvestricted 550 Ib-248				
Platferm	m Haight 45H 13.72 M				
Platform	Fotator	180 Cegnres Hydraulic			
Platform	Site	30 x 72 in: 0.76 x 1.83	r183 m		
ange of Articulation		144 Cegnes (+76, -6	76, -69		
Seing		355 Degries Non- C	es Nerv Centimous		
Turning	Rathia Inside	670 in 106 m	6709 in 106 m		
Up and C	Over Height 24 ft 7.3m				
Nhight		12,657 lb 5,738 kg			
Other			8		
* same it	The A . decourses		7.8		

Figure 4: Additional Data for Model



USING THE MODELS

How to Use the Boom Lifts Component

All JLG[®] components have been created as mechanical models, once loaded the model can be placed anywhere within the project. When the component is in the desired location, the user should navigate to an appropriate elevation (plan view is advised). The align tool can then be used to lock the component to a specific location.

NOTE: While placing the component, it can be rotated by 90° by using the space key.

USING ADDITIONAL MODEL FEATURES

JLG[®] Boom Lifts components have been created parametrically. This allows the Height and Horizontal Reach of the platform; the Swing Angle, Platform Rotation and Jib Rotation to be changed. Tick-box options are also available for visibility control of the reach diagram, platform working area and turning radius.

Visibility Control

The visibility of the platform working area and turning radius can be toggled on or off. To access a component's visibility control, select the desired component and go to the 'Properties' bar. Then, simply uncheck the tick-box to control visibility.



Figure 5: Illustration of Additional Visible Components

Height=0.47m(1'-6')	Reach=4.96m(16'-3")
Mechanical Equipment (1)	👻 🔡 Edit Type
Constraints	\$
Level	Level 0
Host	Level : Level 0
Offset	0.0
Moves With Nearby Elements	- <u>10</u>
Electrical - Loads	\$
Panel	
Circuit Number	
Dimensions	2
Platform Rotation	0.00*
Swing_Angle	0.00*
Reach Diagram	
Turning Radius_4WD	
Working Area	
Sal	180.00*
PR	0.00*
Mechanical	*
System Classification	
System Name	
Identity Data	\$
Image	
Comments	
Mark	1
Phasing	2
Phase Created	New Construction
Phase Demolished	None
Other	2
WarrantyStartDate (default)	Please Record On Commissioning

Boxes



Swing Angle, Platform Rotation & Jib Rotation

The Boom Swing Angle, Platform Rotation and Jib Rotation can be modified in the properties bar. Simply click in the box and type the desired value.

Note: Users can input any value into the controllable fields. However, if the capability of the JLG machine is exceeded the model will automatically update the value to reflect the maximum capacity of the machine.

1001160000_600A Height=0.47m(1'-6')	Reach=4.96m(16'-3'')
Mechanical Equipment (1)	🔹 🔠 Edit Type
Constraints	8
Level	Level 0
Host	Level : Level 0
Offset	0.0
Moves With Nearby Elements	0
Electrical - Loads	\$
Panel	
Circuit Number	
Dimensions	2
Platform Rotation	
Swing_Angle	
Reach Diagram	12
Turning Radius_2WD	13
Turning Radius_4WD	12
Working Area	10
Sal	180.00*
PR	0.00*
Mechanical	A
System Classification	
System Name	
Identity Data	\$
Image	
Comments	
Mark	1
Phasing	A
Phase Created	New Construction
Phase Demolished	None
Other	*
WarrantyStartDate (default)	Please Record On Commissioning

Figure 7: Rotation Configuration

Modify the Platform Height and Reach

To modify the height and reach of the platform simply select the component and choose from the pre-defined height and reach combinations in the types drop down box, this can be found at the top of the Properties bar. The platform will automatically move to the selected position.

Within the height and reach combinations, the user can select a 'Transport Condition/Stowed Position'. If selected the machine will move to its smallest and most suitable position for transportation.



Note: For types with the suffix (Platform Rotation 90°) the user must input '90' into the Platform Rotation parameter in the Properties bar. This will then give the correct height and reach.

Properties			×
1001160100_12005 Height=0.23m(0'-9 (500lbs)	5JP '')_Reach=7.13m(23'-5'')_230Kg		•
Mechanical Equipment (1)		it Ty	pe
Constraints		\$	
P2			
P4			
Level	Level 0		1_
Host	Level : Level 0		11
Offset	0.0		
Moves With Nearby Elements			
Electrical - Loads		\$	
Panel			
Circuit Number			
Dimensions		\$	
WE	710.0		
PR	0.00*		
Sa	180.00°		
Platform Rotation	0.00°		-
Properties help	Ar	ply	

Figure 8: Height and Reach Control Menu



Figure 9: Each Height and Reach Option Corresponds to a Position in the Reach Diagram Grid

ype name:	Height=0.33m(1'-1")_Reach=3.80m(12'-6")		
	Height=0.33m(1'-1")_Reach=3.80m(12'-6")		
Search param	Height=0.58m(1'-11")_Reach=5.39m(17'-8")		
	Height=1.50m(4'-11")_Reach=3.24m(10'-8")_(Platform Rotation 90°)		
	Height=1.50m(4'-11')_Reach=4.50m(14'-9')		
	Height=1.50m(4-11')_Reach=5.53m(18-2')		
Constraints	Height=10.29m(33-9)_Reach=1.02m(3-4)		
Ala	Height=10.29m(0, 10 th) Reach=1.46m(4-10)_(Platform Rotation 90°)		
Δ2a	Height=3.00m(0'-10") Peach=4.50m(14'-0")		
AF	Height=3.00m(9'-10") Reach=5.58m(18'-4")		
AE	Height=4.50m(14'-9") Reach=1.56m(5'-1") (Platform Rotation 90°)		
AEa	Height=4.50m(14'-9") Reach=3.00m(9'-10")		
Ja	Height=4.50m(14'-9")_Reach=4.50m(14'-9")		
Deach	Height=4.50m(14'-9")_Reach=5.69m(18'-8")		
Reach	Height=5.05m(16'-7")_Reach=0.63m(2'-1")_(Platform Rotation 90°)		
Dimensions	Height=6.00m(19'-8")_Reach=0.79m(2'-7")_(Platform Rotation 90°)		
A1 a1	Height=6.00m(19'-8")_Reach=1.50m(4'-11")		
10.1	Height=6.00m(19'-8")_Reach=3.00m(9'-10")		
AZal	Height=6.00m(19-8')_Reach=4.50m(14-9')		
AEHa	Height=0.00m(19-6)_Keach=0.5/m(18-3) Height=7.50m(24-7)_Deach=0.71m(2-4)_(Diatform Dotation 90%)		
AEHa1	Height=7.50m(24-7) Reach=1.50m(4-11")		
ΔEa1	Height=7.50m(24'-7") Reach=3.00m(9'-10")		
ALL	Height=7.50m(24'-7") Reach=4.50m(14'-9")		
АНа	Height=7.50m(24'-7")_Reach=5.09m(16'-8")		
AHa1	Height=9.00m(29'-6")_Reach=0.61m(2'-0")_(Platform Rotation 90°)		
JHa	Height=9.00m(29'-6")_Reach=1.50m(4'-11")		
IHa1	Height=9.00m(29'-6')_Reach=3.00m(9'-10')		
1.4	Height=9.00m(29'-6')_Reach=3.95m(13'-0')		
Jai	meight=9.84m(32-3)_keach=2.68m(8-9)		

Figure 10: Examples of Height and Reach Combinations