# Machine

How to manage machines with Smart Jobsite For Revit?

- Create a crane
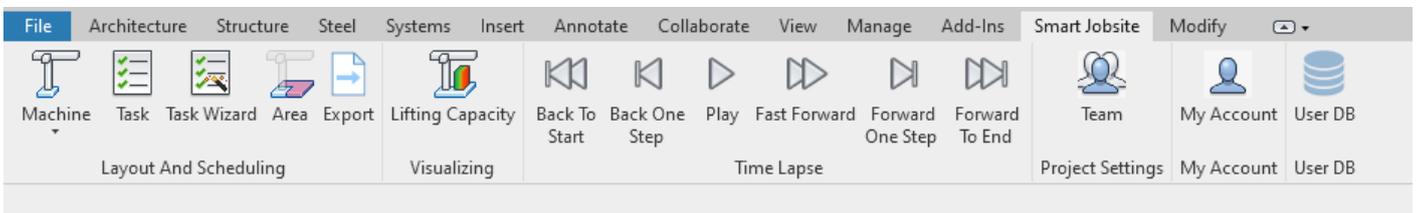
On the Smart Jobsite Tab click on the "Machine" drop down
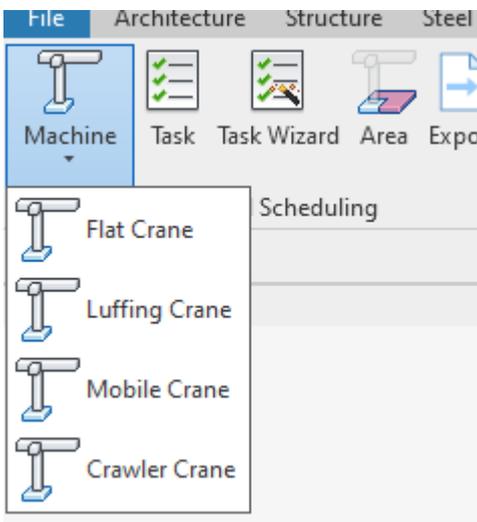
You can choose between 4 types of machines, Flat crane, Luffing crane, mobile crane and Crawler crane

If you click on a crane type you will acces the following panel

Flat Crane ✕

T C1

✓ ✗

Configuration ⌃

Brand	Smart Jobsite
Model	Generic Flat Crane
Height	25 m
Jib Length	25 m
Counter Jib Length	10 m
Fall	2
Slew Angle	0.00
Radius	5
Hook Height	25
Jack-Up	☐
Translation	☐

Location ⌄

Capacity ⌄

Installation date ⌄

Flat Crane   Project Browser - SmartJobsiteOfficeSingleBuilding.rvt

Under configuration you can manage :

- The Brand and Model of the crane, you have acces to a huge database of cranes.
- The crane geometry : height, length, counter jib length, number of fall
- The crane position : slew angle, radius, hook height.

The configurations changes will be visible on the 3D view

Under Location you can change the location of you crane using GPS coordinates. You will see the changes on the 3D view

Flat Crane

C1

✓   ✗

Configuration ⌄

Location ⌄

Capacity ⌃

Load Chart

Calculation   Linear ▾

Radius (m)	Capacity (t)
10	30
20	20
25	15

	Acceleration	Deceleration	Max. Speed
Lifting	1 m/s²	1 m/s²	5 m/s
Sleewing	1 °/s²	1 °/s²	5 °/s
Trolley	1 m/s²	1 m/s²	5 m/s

Installation date ⌄

Under Capacity you can manage your load chart. If you click on the "Load Chart" button you will have acces to the load chart have the crane you choose on the configuration part (Brand and model).
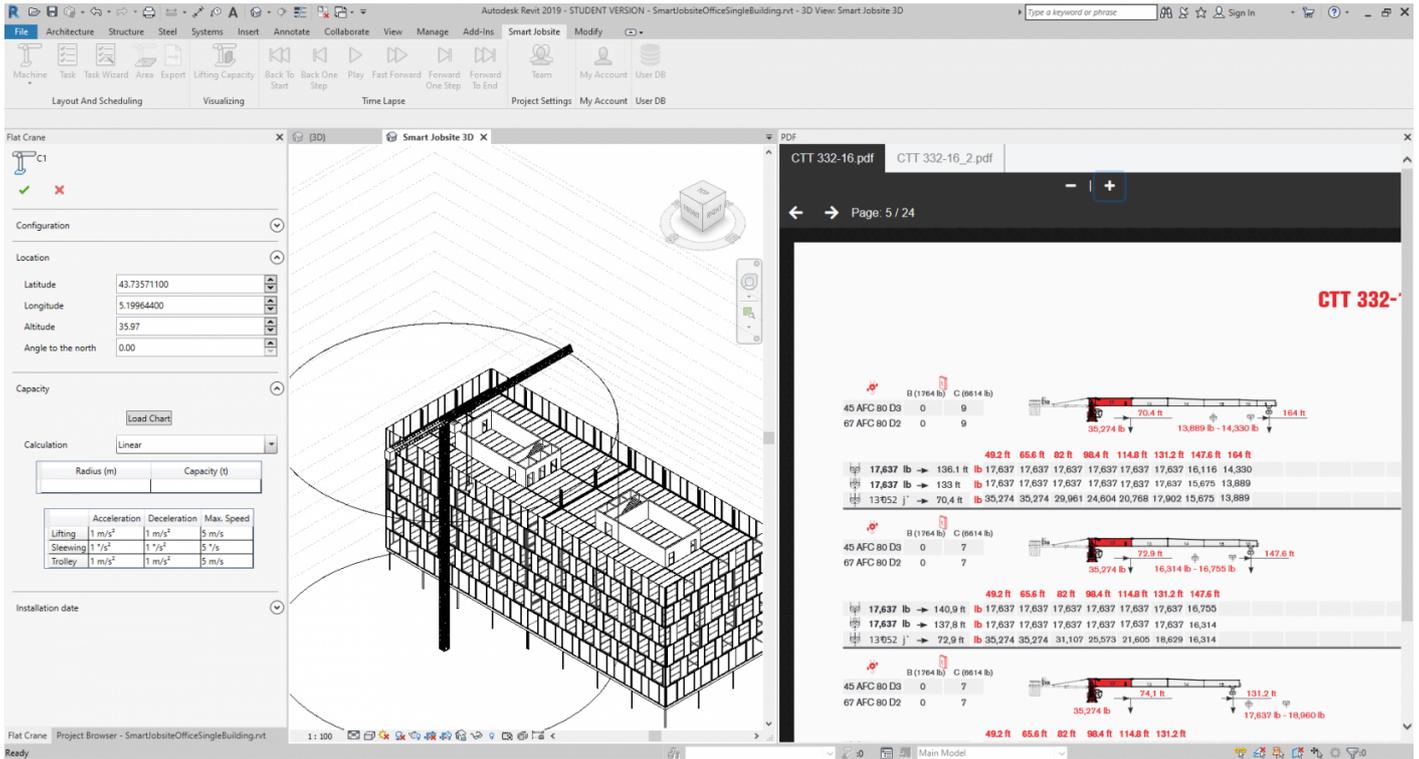
Thanks to this you can enter the right value on the load chart table
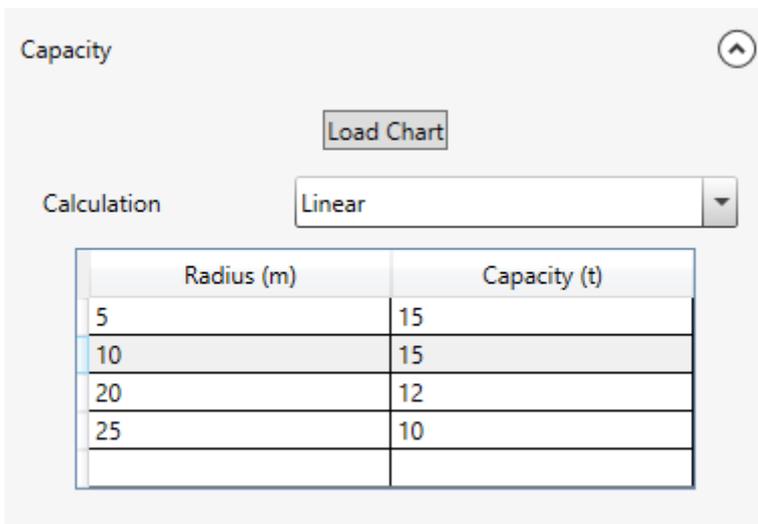
You can change the calculation method.
If you choose Linear we will consider that the weight is linear between two points
If you choose step we will consider that the capacity change every step you defined on the table

The load chart data will be used to calculate the lifting capacity

Under Installation date you can manage the installation date of you crane

The dates you setup will be use to define the schedule

You can add as many cranes as you want and try different jobsite configuration
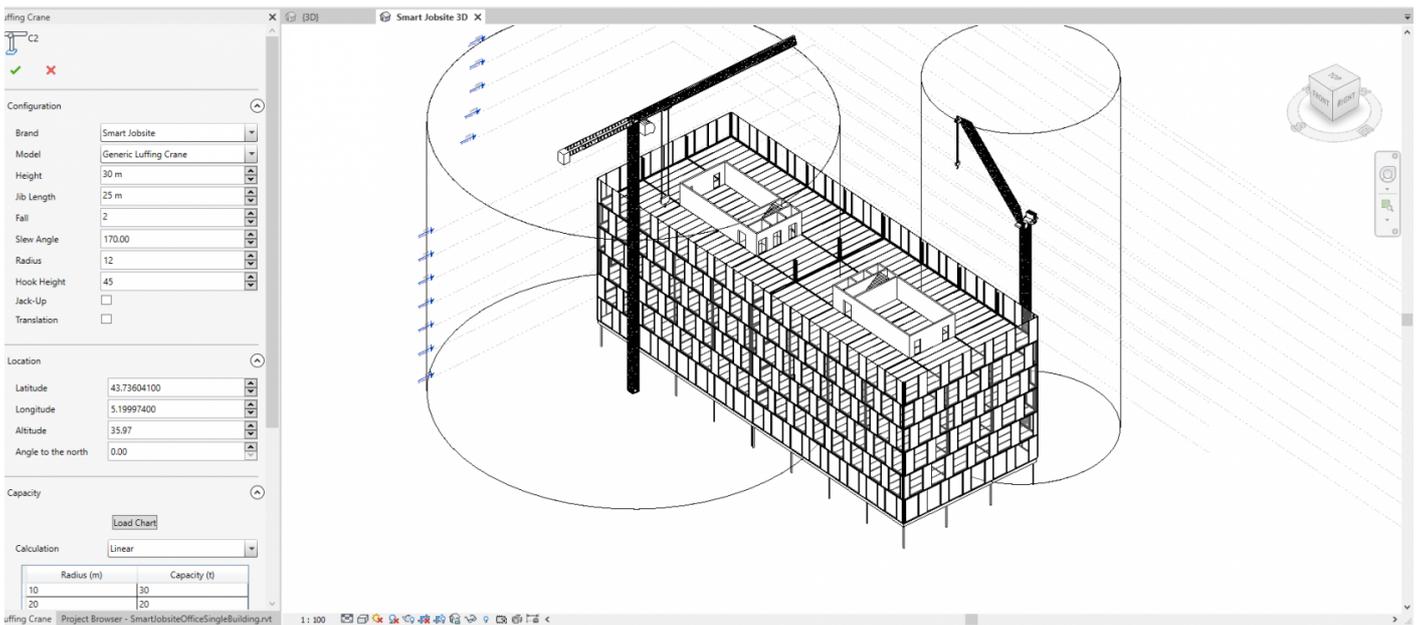
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