

Proposed



TIP

**Changing Sketches
without Parameters**

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One Track Mind

- We spend most of our time in the SolidWorks sketcher adding constraints and parameters so moving, rotating, and sizing sketches is second nature.
 - *Sometimes, in very rare cases, sketches need to change but they don't have parameters so how do we manipulate them.*



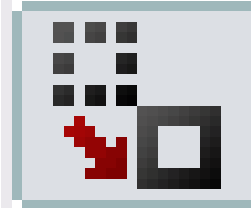
Why No Parameters?

- Line art for logos and very complicated shapes, imported as a sketch from lesser CAD systems may have geometric constraints but probably no dimensions.
 - If the sketch is simple enough, go ahead and dimension it but what if it has a lot of entities.
 - ***Or worse, needs to be scaled!***

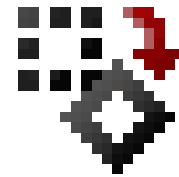


Three Little Used Tools

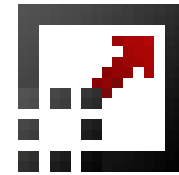
Sketch Tools ▶



Move...



Rotate...



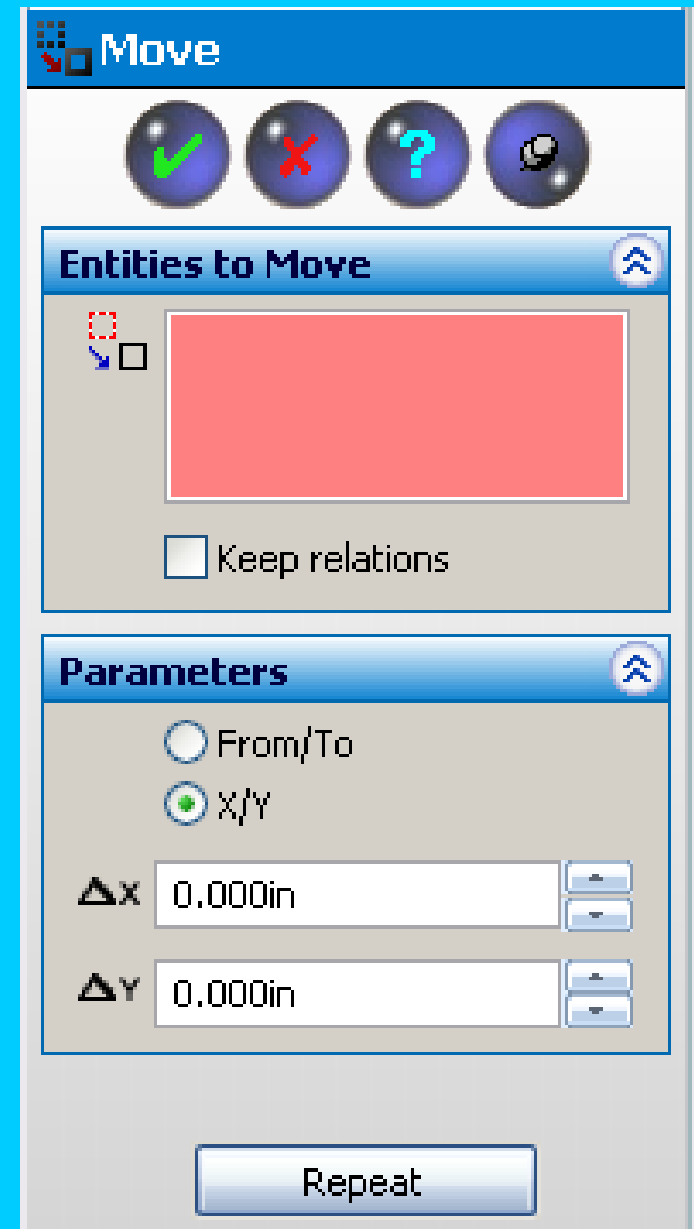
Scale...



TIP

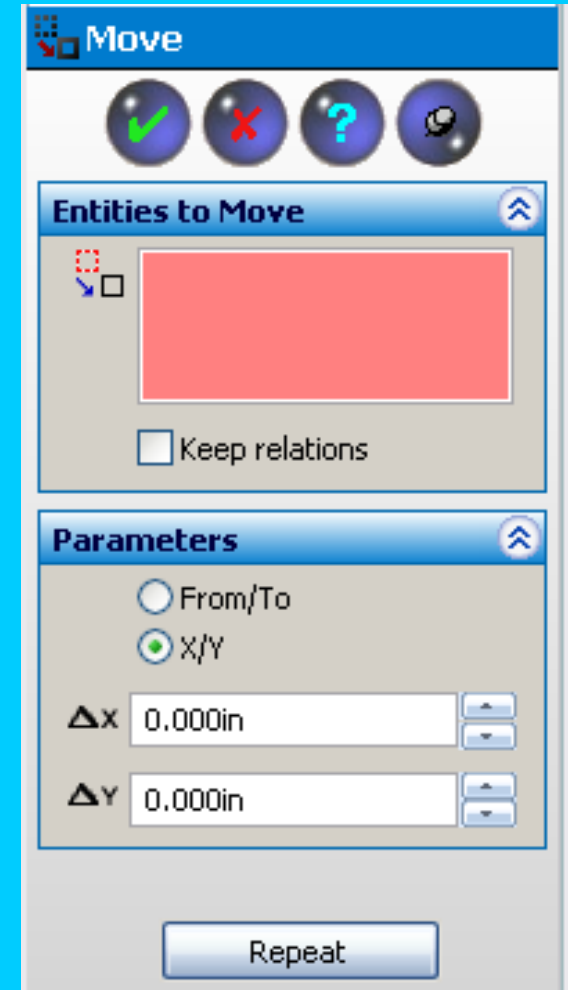
Move

- Select the entities you want to move.
- Select absolute or incremental:
 - (From/To) - select origin and destination points
 - (X/Y) - enter delta distances



Repeat Option

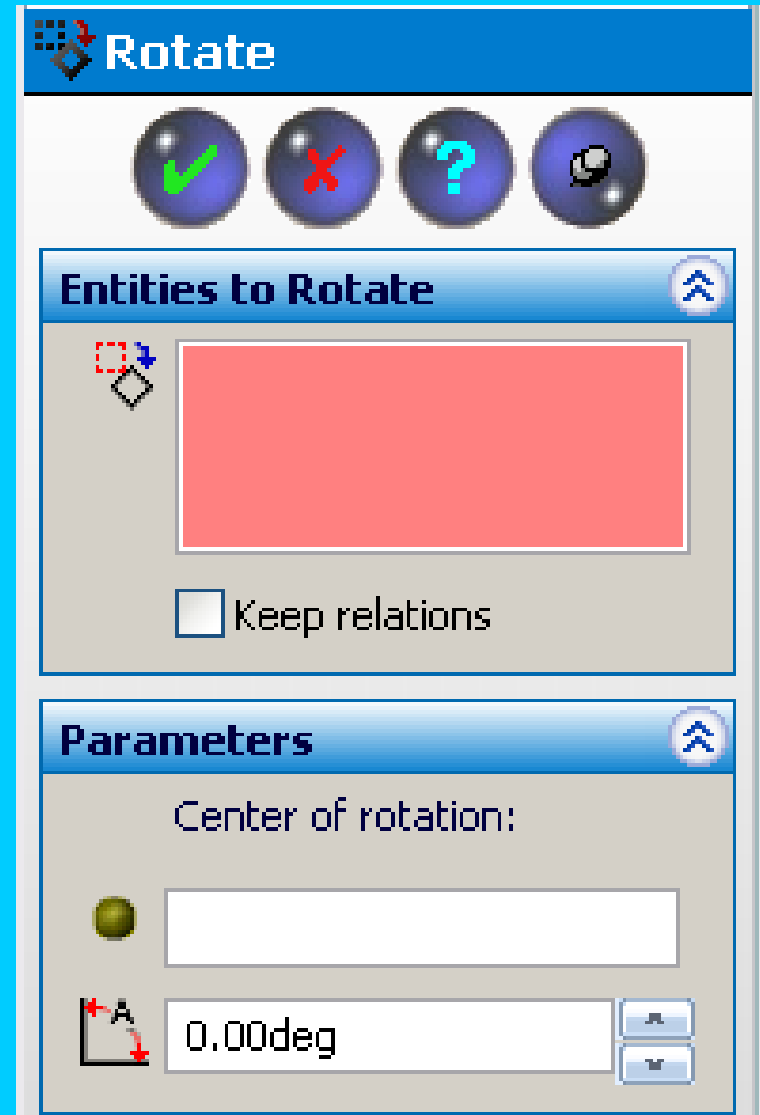
- Selecting the “Repeat” button moves the entities the exact same direction and spacing.
- This is good if you aren’t sure the exact placement.



1 min **TIP**

Rotate

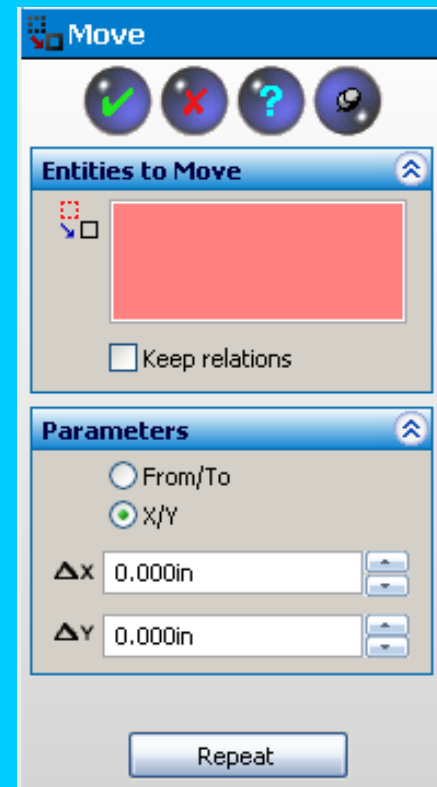
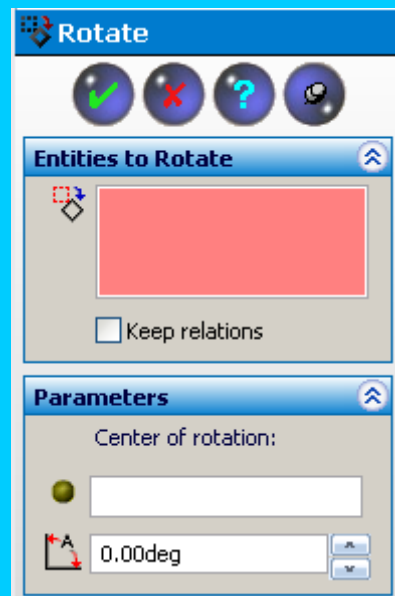
- Select the entities you want to move.
- Select a point for the center of rotation.
- Enter amount of rotation.



1 min **TIP**

Keep relations

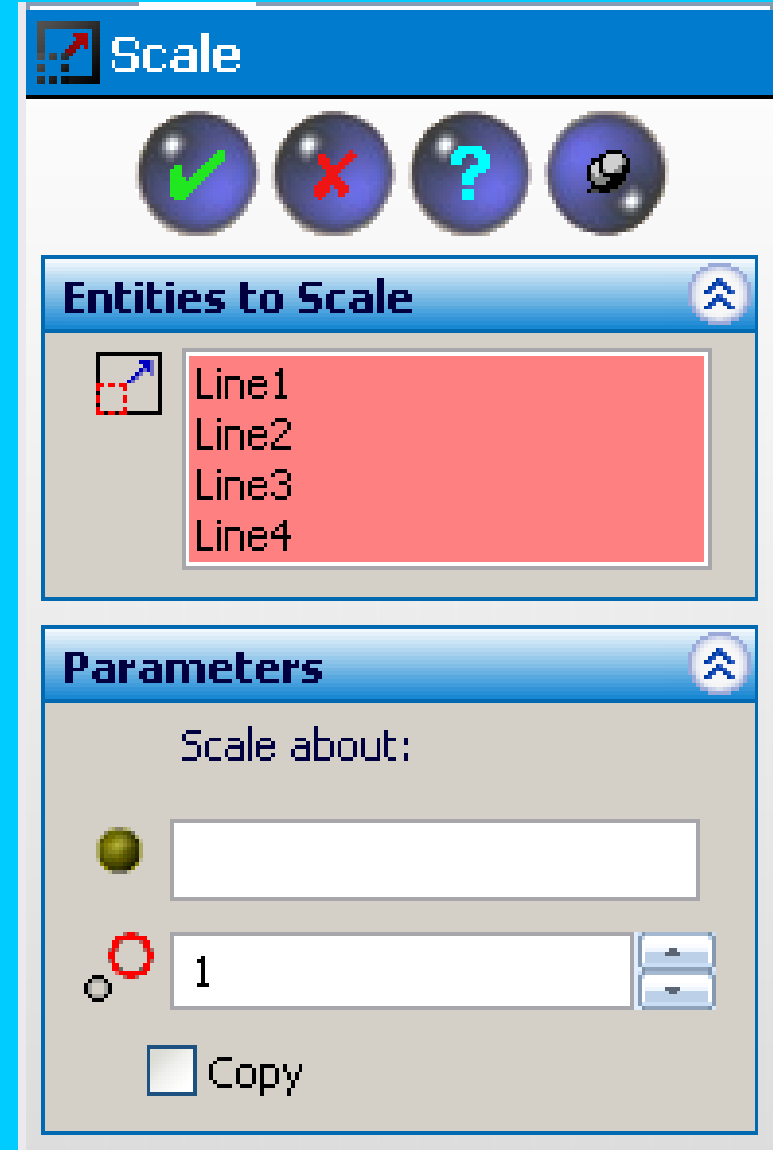
- For moves and rotates, you can choose to “try and” retain the geometric relations or “don’t care” if geometric relations are kept.



1
min TIP

Scale

- Select the entities you want to move.
- Select a point to scale the entities.
- Enter amount scaling.



1 min **TIP**

Other Options

- Use the lesser CAD system to scale or rotate the sketch before you import it.
- If you have PhotoWorks and don't need to actually emboss or engrave the line art then use a Decal.
 - Little tricky to get it right but use a custom texture to create a decal...
 - ***Start constraining!!!!***





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