



Notes of dimensions:

- The base must not be anymore than 10 cm x 10 cm, square. We will provide a base for you to build your crane on so that it will fit the testing platform.
- You are prohibited from putting any wood in the checkered box.
- The crane must not be any more than 30 cm tall and 30 cm wide.
- You must put the supplied pulleys into your crane. The first one must be five centimeters from the main vertical truss; thereby centering it over the base and the second one must be five centimeters from the end of the horizontal truss (see diagram). This assures that the pulleys will be separated by 15 cm.
- The horizontal truss cannot extend more than 5 cm from the vertical truss.
- The strong line in the diagram represents the method that the cranes will be loaded.

Blueprints or plans of the crane will be very helpful during the final construction of the crane. It is recommended that you use waxed paper to cover a piece of cardboard to build

the crane. You can use pins to hold the wood in place while the glue dries. A single edge razor blade, or X-Acto® knife may be used to cut the balsa wood. We will supply twenty pieces of wood and a bottle of 2/3 oz. bottle of glue. Substitute glue may be used, and there are stronger glues than the supplied bottle. We will provide rulers to assist in the cutting of the wood.

Crane Base Dimensions

