Single sub-stage wagon

Scale one to four model

Scale model of a wooden sub-stage wagon or “chariot”, used for baroque machinery experiments and demonstrations. A sub-stage wagon is used to move sets on stage. The model can be built in a basic, but well equipped workshop.

Content

Canon THEATRE TECHNICAL HISTORY	Single sub-stage wagon	Drawing by: Beno Van Goethem	
Canon Tools	Construction drawing	Version: 02.01	Version date: 20/12/2022

Single sub-stage wagon
Materials list

Circles					
Number	Type	thickness	diameter	center hole	remark
4	Cirkel	15 mm	50 mm	8mm	

Other					
Number	Type	Thickness			
2	Inner frames	15 mm			see drawing for details
2	Outer frames	15 mm			see drawing for details

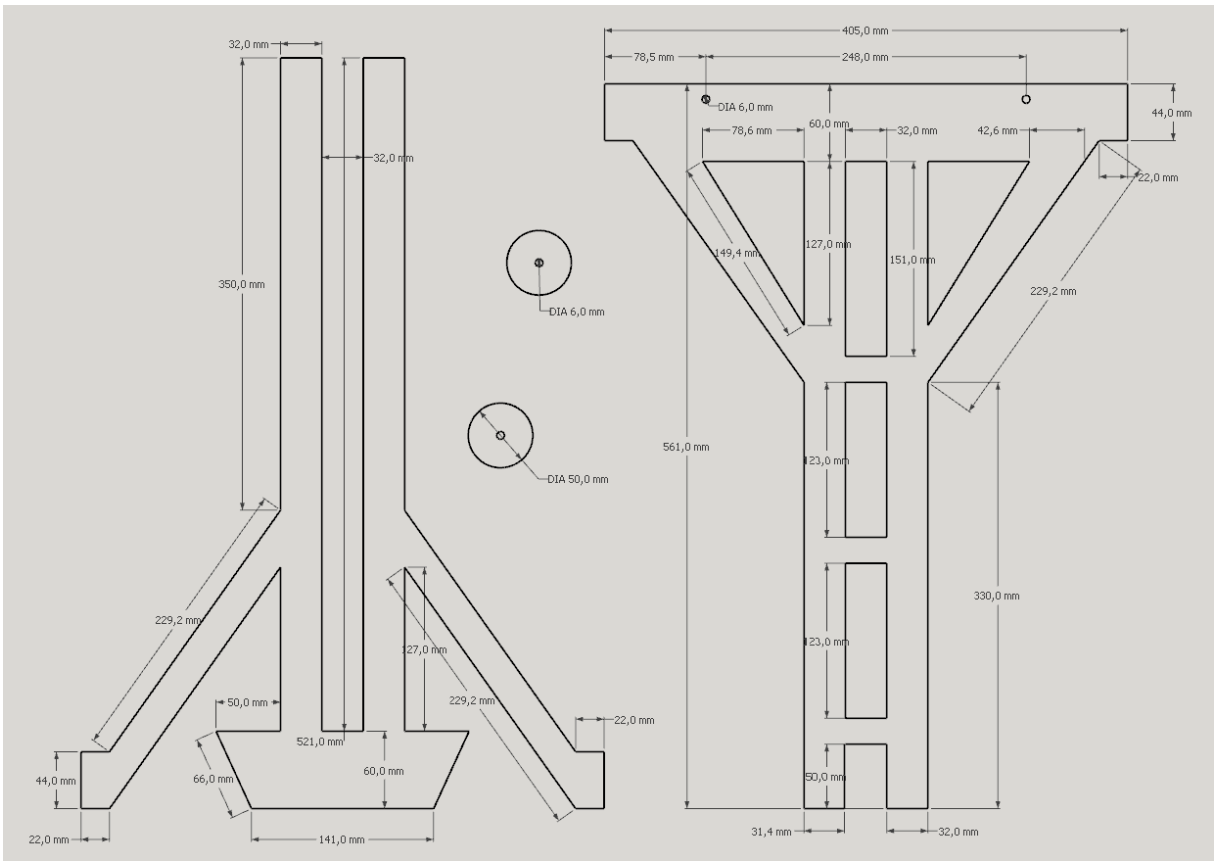
Other materials	
140 mm	threaded rod M8
4 pc.	Self locking nut M8
4 pc.	Washer 8mm
2 pc.	screw eye
	glue

Notes:

The different parts can be cut out of one 15 mm multiplex plate.

Single sub-stage wagon

Detail drawings



Inner frame

Outer frame

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Construction

1. Make sure all surfaces are dust-free.
2. Take a inner frame and a outer frame
3. Glue these together, attach some glue clamps and let it dry for a few hours. If you don't have glue clamps make sure you put at least 5kg/cm of pressure on the glued parts.
4. Repeat for the other frames.

5. Now glue the assembled frames together with the inner frames against each other. Attach some glue clamps to the glued parts and let dry for a few hours.
6. Glue 2 x 2 circles for the wheels together, making sure the drilled-out hole remains free of the wood glue. Let dry for a few hours.
7. Now mount the wheels with a threaded rod M8 and the self-locking nuts.
8. Attach a screw hook to both sides of the wagon.
9. The wagon is now ready

Credits

The drawings and construction method are based on the Final work of Rens Plankaert, RITCS 2014.

The drawings are remade, updated and transformed in 3D Sketchup by Beno van Goethem, Signyture design.

Translation, text and lay-out is done by Chris Van Goethem, RITCS.