HO Scale Concrete Coal Dock Instruction Manual

An experienced modeler should expect to spend about 3 to 4 enjoyable hours for assembly and painting. If you have any questions please contact us at info@alkemscalemodels.com

Roberts and Schaefer Cinder Conveyor

List of parts:
1 set of laser cut acrylic parts
1 sheet of photoetched brass parts (labeled s heet C)
1 Eight inch long, 0.015 inch diameter phosphor bronze rod

Recommended tools and supplies

- XActo knife with sharp number 11 blade
- Plastruct Bondene ABS, Weld or other acrylic glue
- CAA glue (Gap Filling Superglue)
- Fine wet sandpaper (400 or 600 grit)
- Tweezers

- Lycra or fuzz free thread
- Primer- white or grey
- Paints - acrylic or enamels: Concrete, Flat Black, Medium Gray, Steel and weathering colors such as burnt sienna and burnt umber
- Masking Tape
- Optional Solder iron, flux and silver solder.

1. General Overview
This kit combines precision laser cut acrylic and photo etched brass parts to make a highly detailed model of the Roberts and Schaefer Cinder Hoist.

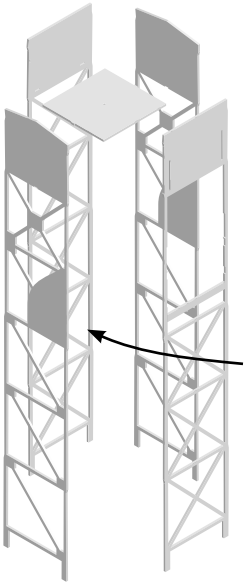


Figure 1: Assemble the main truss tower of the cinder conveyor.

Insert the floor using tabs to locate it properly. When assemble the main truss, make sure the gusset plates face in with the raised detail facing out.

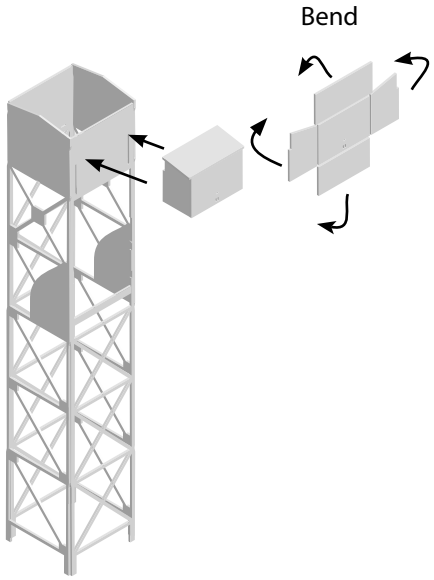
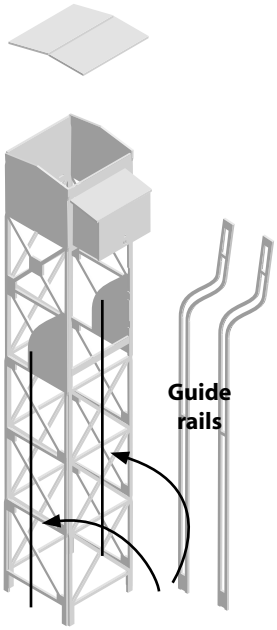


Figure 2: Add the side shed to the head house

Bend the walls, floor and roof on the side shed. Insert the tabs into the slots on the head house of the main truss cinder conveyor.



Center guide rails on these sides

Figure 3: Add the roof and guide rails

Bend the roof slightly and add to the top of the cinder conveyor. Insert the guide rails to the inside of the main truss. The vertical portion of the guide should be centered on the side of the truss.

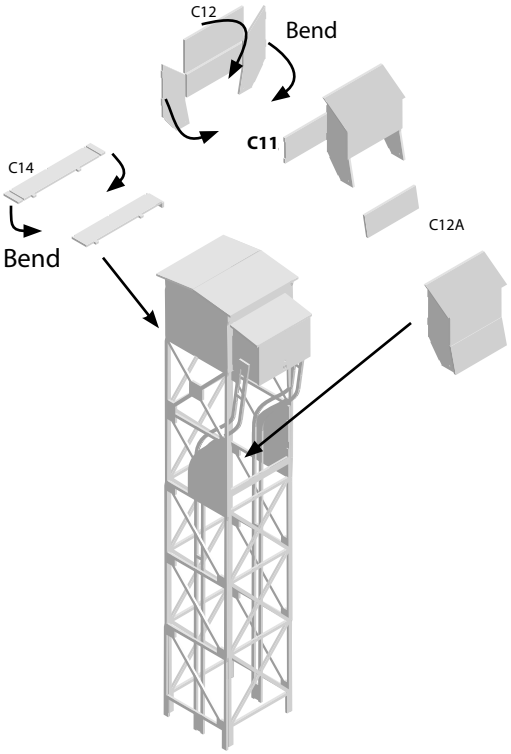


Figure 4 Add upper chute and walkway
Bend part C12 of the upper chute. Add C12A and C11 as shown in the figure 4. Add the upper chute assembly to the main truss.

Bend the ends of the walkway along the half etched lines. Insert the walkway into the slots on the head house of the main truss.

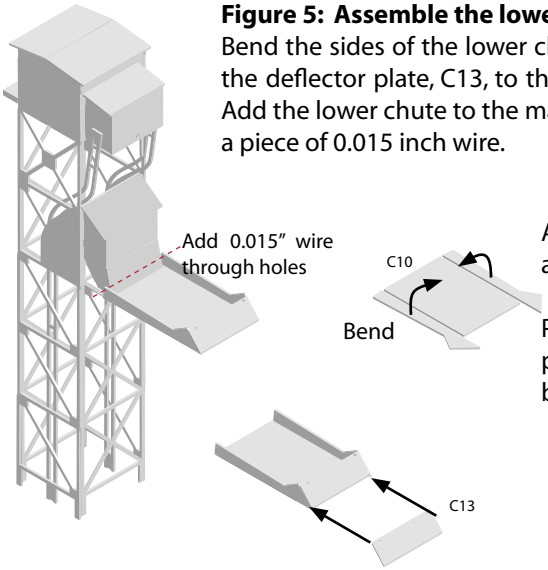


Figure 5: Assemble the lower chute
Bend the sides of the lower chute, C10. Add the deflector plate, C13, to the lower chute. Add the lower chute to the main truss using a piece of 0.015 inch wire.

Add the ladder and handrails.

Paint the completed assembly.

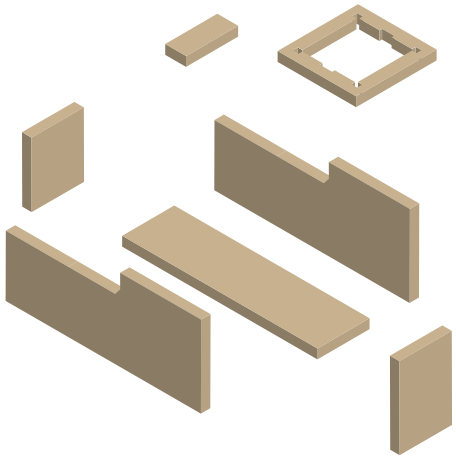


Figure 6: Assemble cinder conveyor foundation

Assemble the acrylic parts for the foundation. Once the parts are assembled, paint the assembly a concrete color.

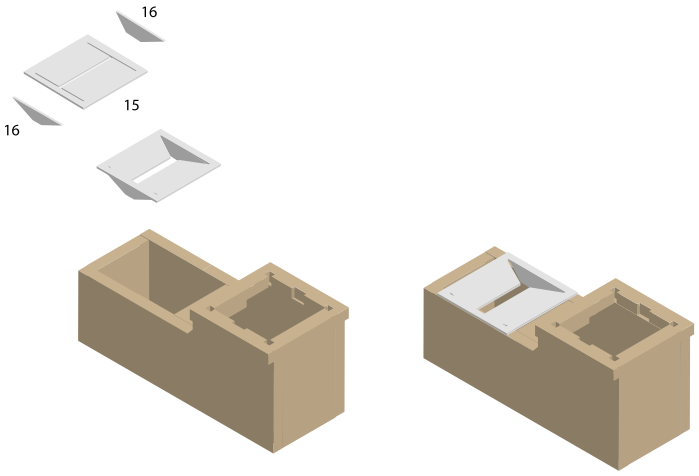


Figure 7: Add the cinder hopper

Parts C15 and two parts C16 form the cinder hopper. Paint the parts and add it the hopper.

Figure 8: Add the main truss assembly to the foundation

Insert the main truss into the foundation. The foundation has grooves cut for the brass legs and guide rails.

Add rigging for the hoist and chutes. See photo 9 and 10 for placement.

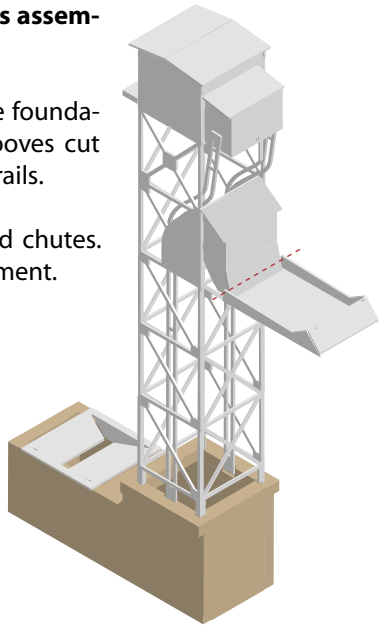
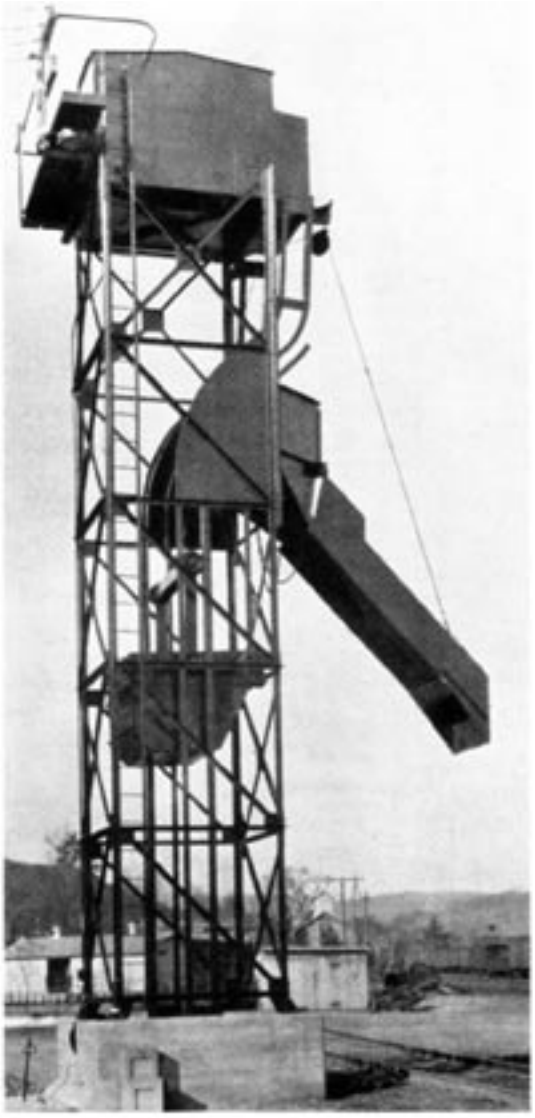


Figure 9 and 10: Finished photos of the cinder conveyor painyed and weathered

Note the kit does not include the loading bucket.

The kit comes with a one track cinder pit. This same type tower could support a two track pit as shown in the accompanying page from the R&S Catalog form the 1930s. Feel free to modify the kit to accomodate a two track application.

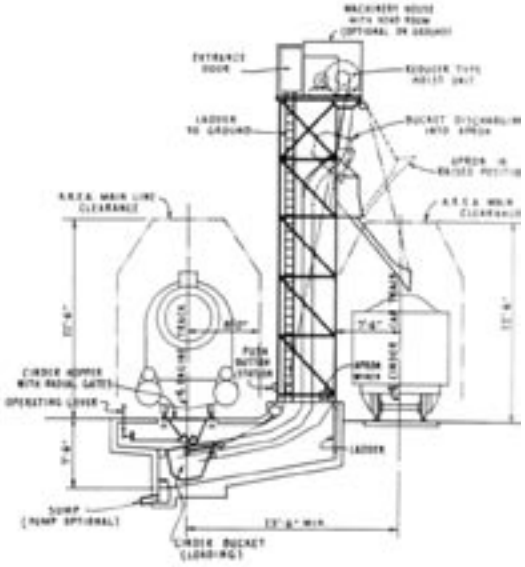
Photos of Prototype Structure

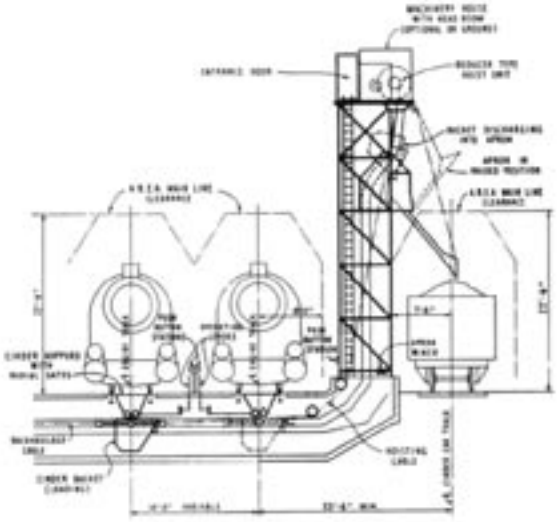


N & W TYPE CINDER PLANT

Here you find the same strong, rigid construction, the same machinery and technical advantages, the same practical simplicity as in the Crane Type plant—with a different design for application wherever mainline overhead clearance for cinder car track is required.

Design demands a straight tower, with higher discharge, and a pivoted apron for lowering cinders.





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