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Are Modular Skids Right for You?



What is a modular skid and how is it used?

Skids are self-contained process systems housed in a frame or structure that packages various equipment together with ease of installation, transport, low constructability costs, and space optimization.

Design Considerations

From a structural design standpoint, the primary concern is ensuring that the strength of the frame and lifting points are sufficient to prevent failure under the skid's own weight during transport and installation. Additional design concerns come into play around client needs and preferences. For instance, if a client needs the steel frame galvanized versus painted, it may impact the types of members and field connections used in the design. Engineers will also consider things like the order of construction (what needs to go where first) when designing the skid so they can optimize shop assembly, transportation needs, installation, and operational efficiency. Skids can be designed to provide necessary clearances for equipment maintenance and access during operations.

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It's widely known by now that if your facility produces dust anywhere during production, you have to conduct a Dust Hazard Analysis (DHA). But what do you do AFTER the DHA? Many of our clients are now at that step - undertaking the implementation phase based on findings from their DHA.

This second phase involves everything from documenting up-to-date P&ID's to designing and installing new equipment or instruments to mitigate dust. The first step in phase two is to develop the project scope based on the needs identified by the DHA report. Once a project scope is identified, the next step is setting up cost estimates for any engineering design work to be completed. At this point, detailed engineering begins. This can include work like documenting P&ID's for accuracy and process upgrades or equipment installation designs.

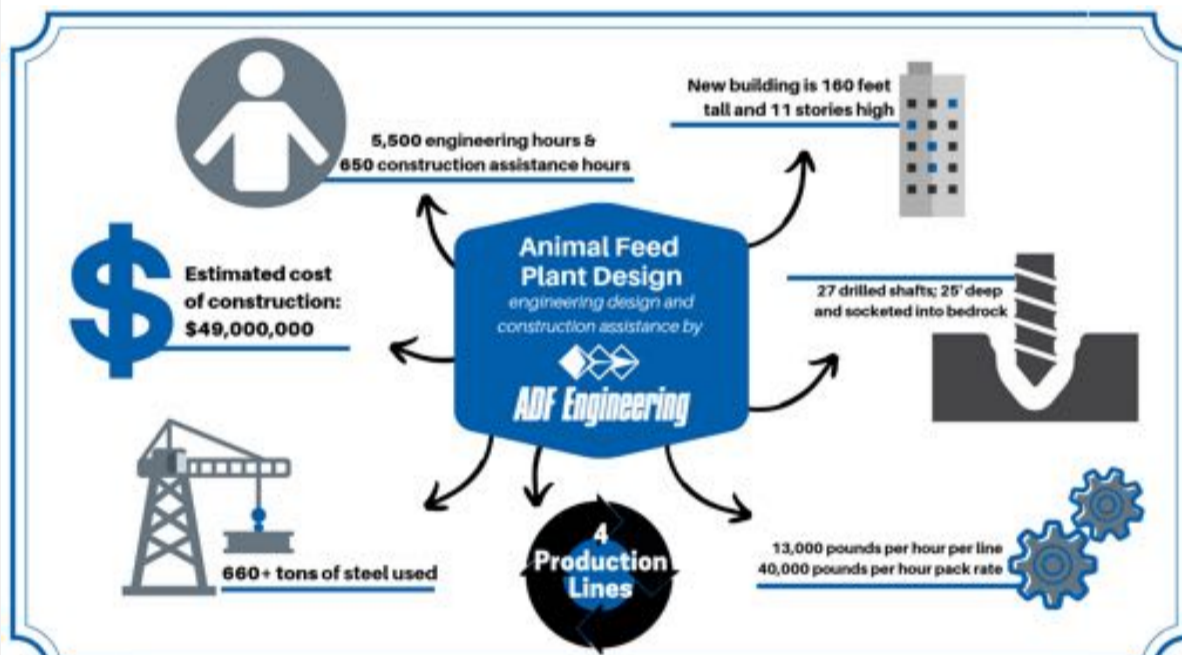
One ADF client is in the process of completing this second phase in several of their production facilities. Each of these projects involves looking at the DHA findings from multiple areas of their facilities and tackling items area-by-area. For example, in a particular silo, we may only need to add an explosion panel, but in the loadout bay, it may be electrical area classification changes. We are working individually with each facility to determine the best approach to keep them regulation compliant and efficient.

Now that you've completed or are nearing completion of your DHA, how can we help you move into the implementation phase? [Learn more about DHA's.](#)

Below, Matt Williamson gives a presentation on dust controls during the AOCS Expo earlier this month.

Infographic: Packaged Solutions Plant Addition

ADF was proud to lead the design and assist with the construction of a nearly \$50 million animal feed plant. Check out the infographic below to read some facts from the large-scale project. Want to know more? [Contact us.](#)



2019 Upcoming Events

- Fuel Ethanol Workshop @ Booth 1028; Indianapolis, IN, June 10-12
- American Bakers' Association in St. Louis, MO, Oct. 27-28

Are you attending any of these shows? Be sure to [let us know!](#)

Below, Matt Williamson gives a presentation on dust controls during the AOCS Expo earlier this month. [Do you need training at your facility?](#)



How are we doing?

Have an idea for a topic? Want to provide feedback? [Let us know what you think!](#)