

## **Designing of hydraulic lifts and their impact on the scenography of theatrical performances**

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### **Abstract:**

The designer's ability to create theatrical scenes to impress the audience is reflected in the challenges of using and designing hydraulic lifts. It is what gives the theater audience a sense of life on this stage, in addition to integrating them with characters, backgrounds, and movements that make the scene seem animated, realistic, and magical, and around the world many theaters are using hydraulic lifts as one of the main elements of theatrical performances. The design of hydraulic lifts is based on understanding the special needs of theatrical performance through design vocabulary and thinking about its problems, and looking at it from the shape and functional point of view on the basis that it is an integrated chain that moves in a sequential or successive manner in addition to addressing all possible mechanical solutions, whether they are simple or complex, identifying guidance systems, defining methods of control and movement, the possibility of determining their movement sequence, exploiting the interconnectedness in movement, which is pre-determined, understanding the effects of the entire system, and preparing operating systems that include the application of design standards in all its stages, this in addition to finding solutions that enable us to rearrange the design vocabulary to maintain diversity in the form of presentation through reuse in a different way or upgrade and renewal, and thus hydraulic platforms are among the most important scenographic elements that distinguish theatrical architecture, as they provide scenography with the ability to provide an action and a response to the action through its relationship with the rest of the elements to achieve the desired scene, as the director and scenographer are being able to present moving paintings on stage to take the actions of scenes to the necessary and impossible fabrication, allowing the ability to implement scenes that were not available before, and showing skill in achieving mechanical and electronic design requirements by creating kinetic environments that depend on creating an unexpected shock.

### **Keywords:**

Reflections, Challenges, hydraulic lifts, theatrical scenography