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MISR UNIVERSITY FOR SCIENCE AND **TECHNOLOGY**

Earthquake Shaking Table

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PROJECT FIGURES			

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Department of Mechatronics Engineering College of Engineering Science & **Technology** Spring 2024

COST

170,00 EGP

180,00 EGP 1300,00 EGP

800,00 EGP

1200,00 EG 20,00 EGP 10,00 EGP

90.00 EGI 1500,00 EG 100,00 EGP

300,00 EGI 450.00 EG

300.00EGP

900,00 EGP 180,00 EGI

850,00 EGI 80.00 EGP

750,00 EGP

150,00 EGP 50,00 EGP.

SUMMERY

- A single-axis shaking table simulates earthquake tremors in one direction, enabling researchers to test structures, materials, and equipment.
- It moves forward and back with adjustable speed, strength, and distance based on real earthquake data.
- While they can't fully replicate real earthquakes, these tables are valuable for understanding and improving earthquake resistance.

RESULTS

100,00 EGP 11630EG **CONCLUSIONS**

Single-axis shaking tables provide valuable insights into structural and material behavior under simulated earthquakes. They help identify weaknesses and assess damage potential, crucial for developing stronger, more resilient structures. These tables offer a costeffective tool for earthquake engineering research and development, despite their limitation of only simulating single-directional

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PROJECT OBJECTIVES

- Simulate horizontal earthquake motions to test structural models and components, analyzing their seismic performance and material behavior.
- Provide data on structural responses and contribute to developing safer, more resilient structures.
- Promote cost-effective research capabilities in earthquake simulations, advancing earthquake