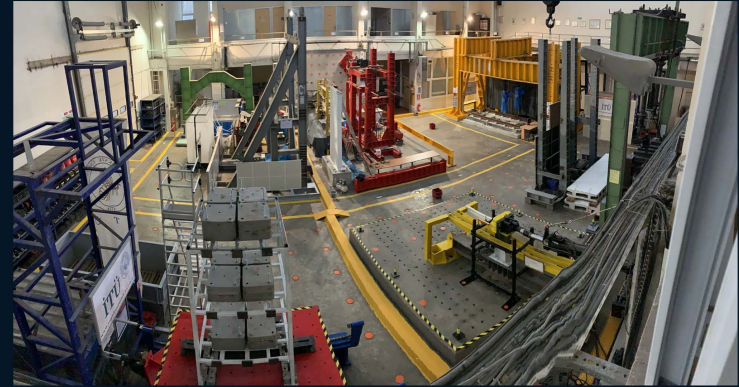


**STEE**Lab

**30** YIL  
1993-2023



**250** YIL  
1773-2023



*Istanbul Technical University  
Faculty of Civil Engineering  
Structural and Earthquake Engineering Laboratory  
34469 Maslak – Istanbul-TURKEY*

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E-mail : [yapidepremlab@itu.edu.tr](mailto:yapidepremlab@itu.edu.tr)  
Tel. : +90 212 285 37 95 - Fax : +90 212 285 34 15

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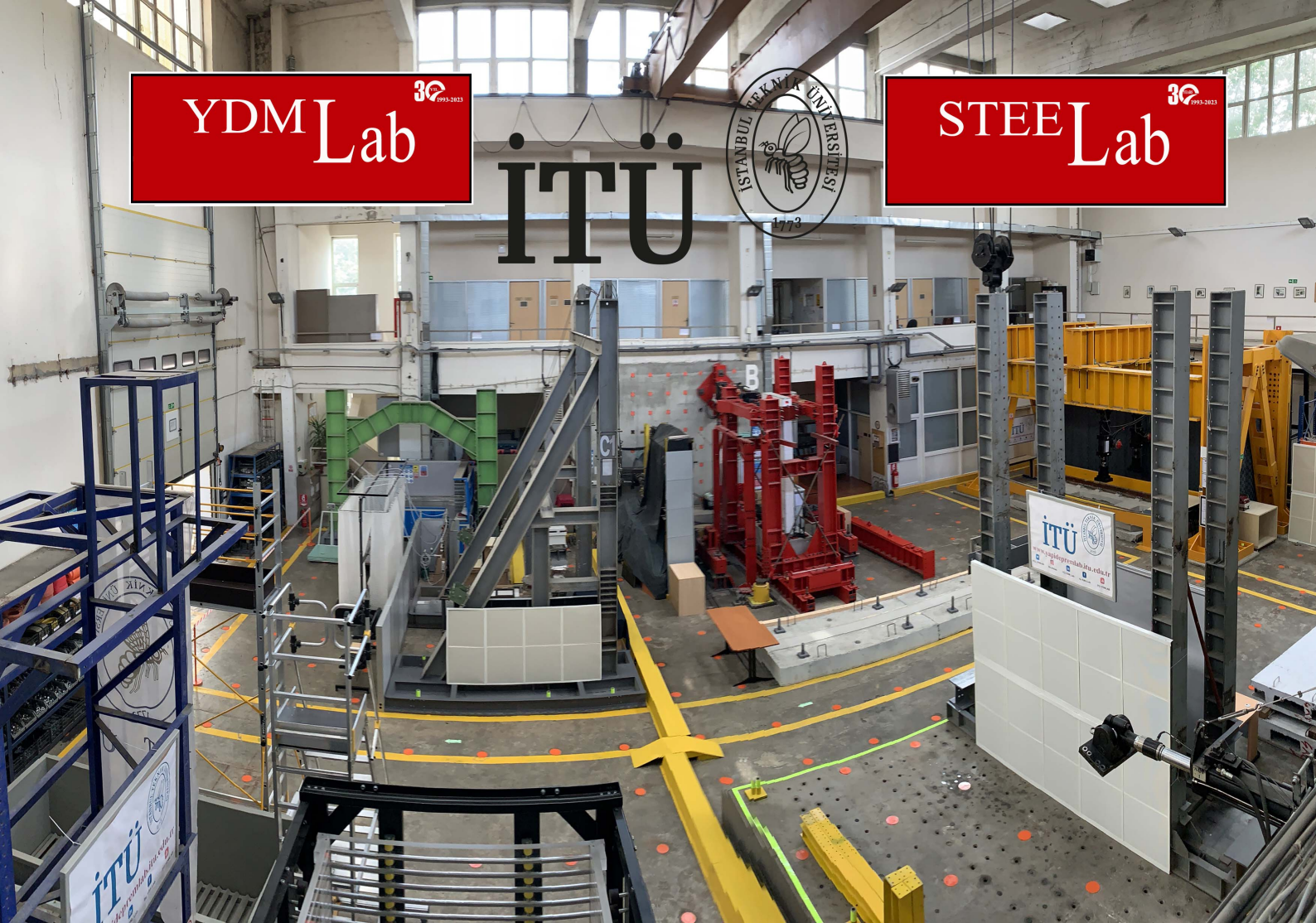
YDM Lab



İTÜ



STEE Lab



## Services

- *Static Tests*
- *Pseudo Dynamic Tests*
- *Dynamic Tests (Shake Table)*
- *Fatigue Tests*
- *Free and Forced Vibration Measurements*
- *Energy Dissipaters*
- *Seismic Isolation Systems*
- *Structural Health Monitoring*
- *Outdoor Tests*
- *High Voltage Electric Insulator Tests*
- *Railway Track&Slabtrack Tests*



## Equipments

- *MTS Static Hydraulic Actuators*
- *MTS Dynamic Hydraulic Actuators*
- *Dartec Static Hydraulic Actuator*
- *TDG Static Hydraulic Actuator*
- *Hydraulic Pumps*
- *Static and Dynamic Data Acquisition Systems*
- *Shake Table*
- *Load cells*
- *Displacement Transducers (LVDTs)*
- *Accelerometers*



# Shake Table

**Dimensions**

**: 2.35 m × 2.35 m**

**DOF**

**: 1D**

**Pay-Load**

**: 60 kN**

**Stroke Velocity**

**: 1 m/sec**

**Displacement Capacity**

**: ± 325 mm**

**Effective Acceleration Capacity**

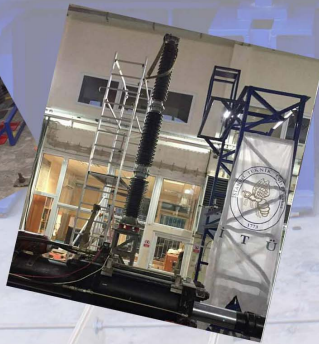
**: 1g**

**Overturning Moment Capacity**

**: 320 kNm**

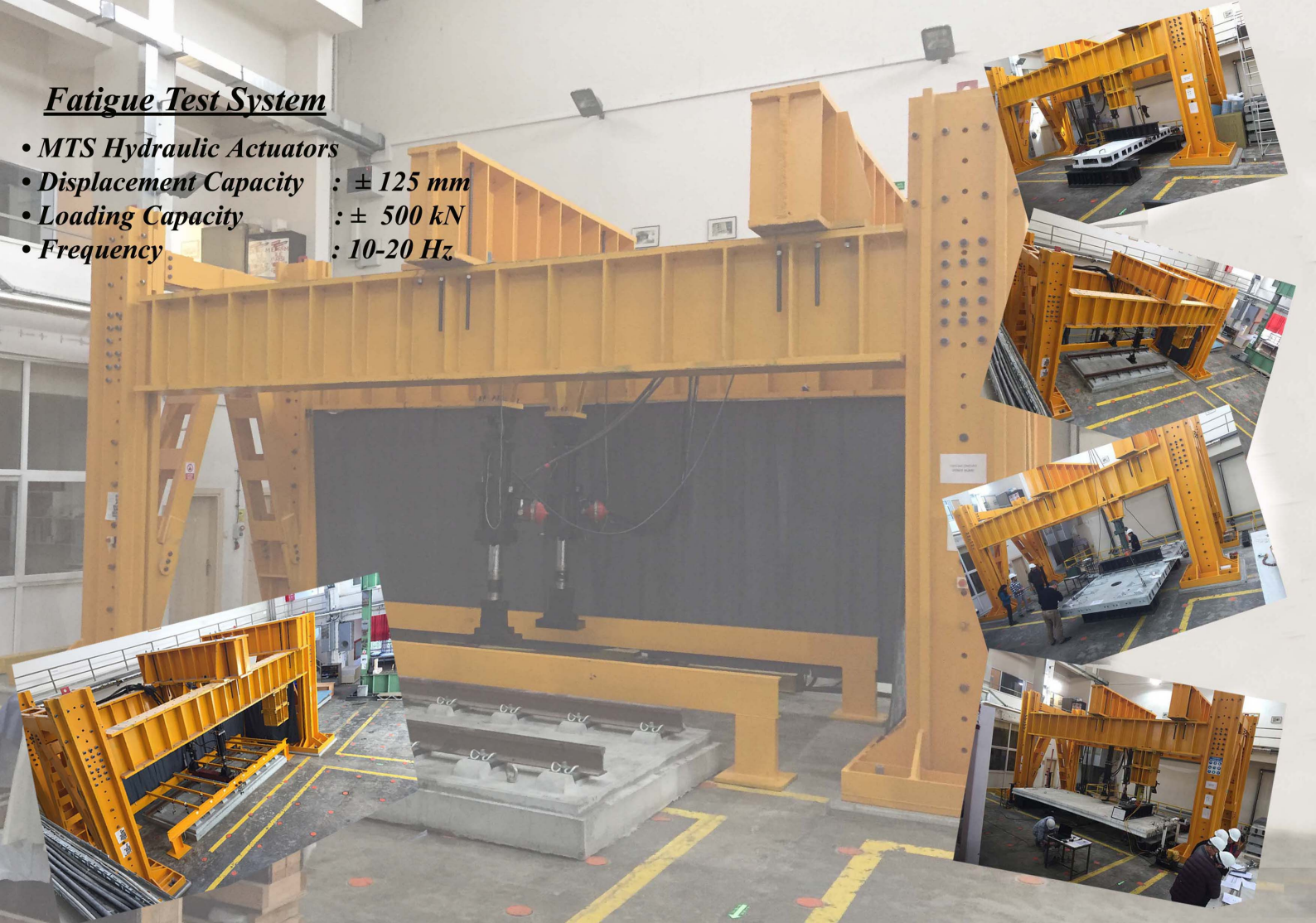
**Friction Coefficient**

**: 1.5 %**



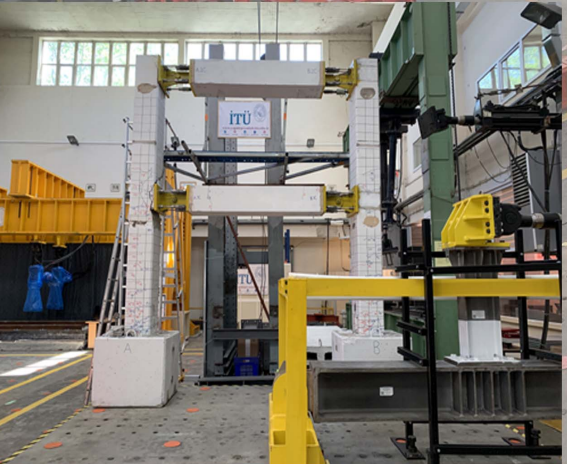
## *Fatigue Test System*

- *MTS Hydraulic Actuators*
- *Displacement Capacity* :  $\pm 125 \text{ mm}$
- *Loading Capacity* :  $\pm 500 \text{ kN}$
- *Frequency* :  $10\text{-}20 \text{ Hz}$



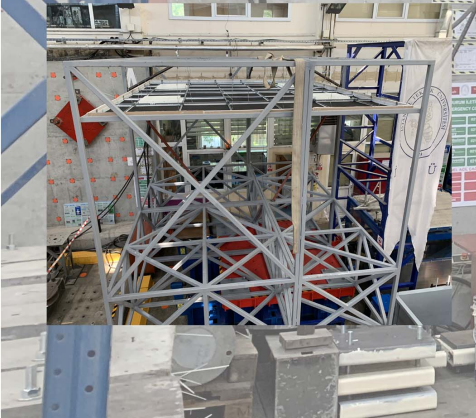


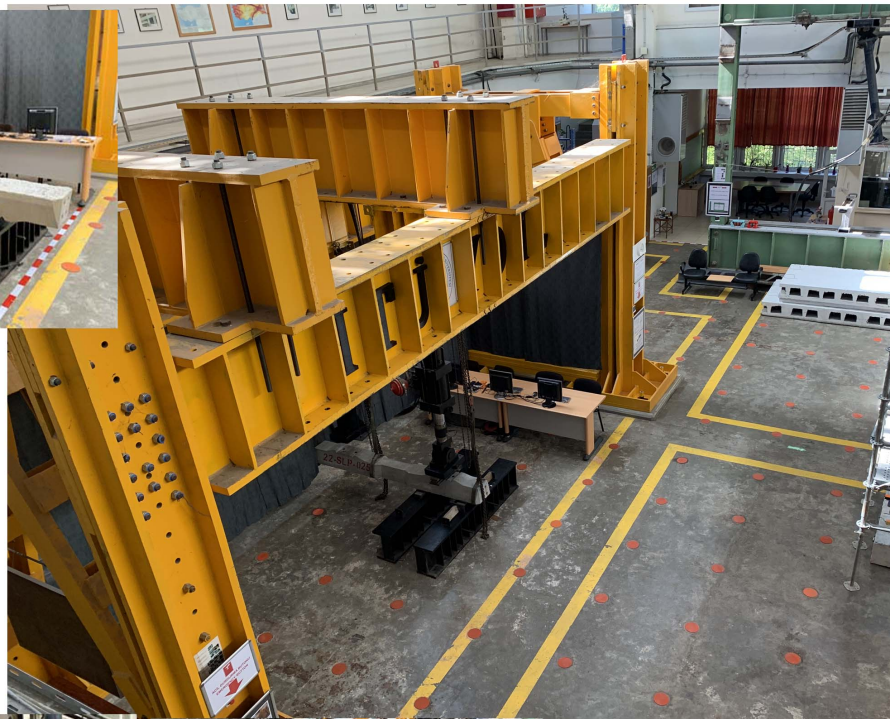
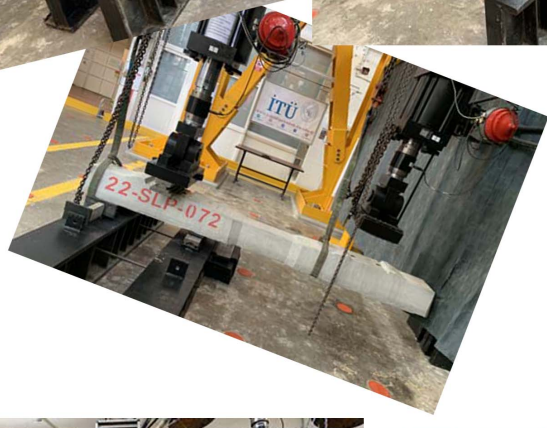
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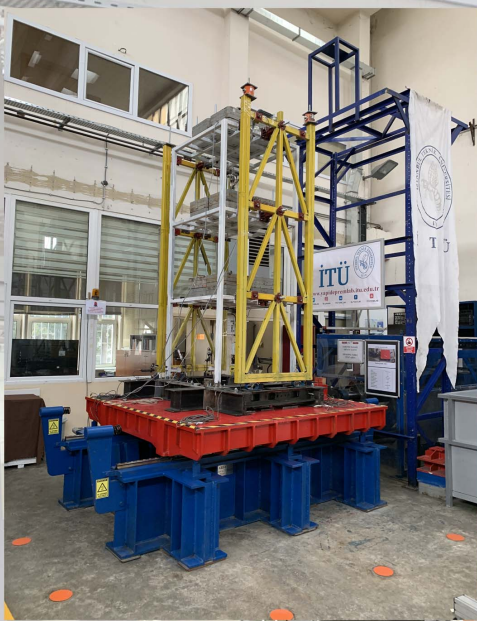




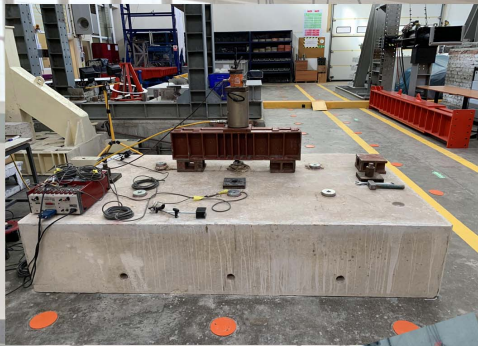














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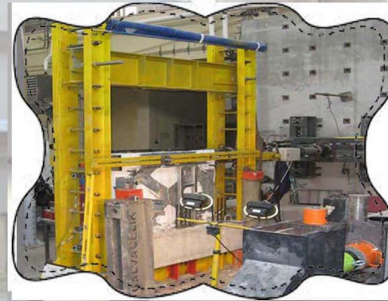




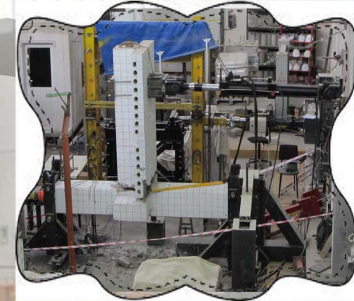
1992-1993



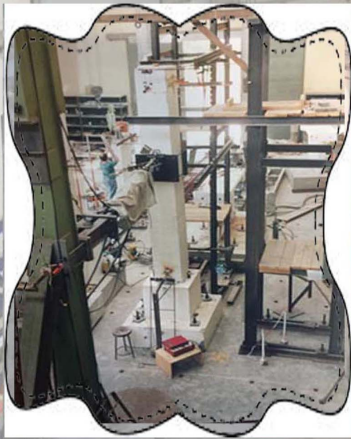
1997



2007



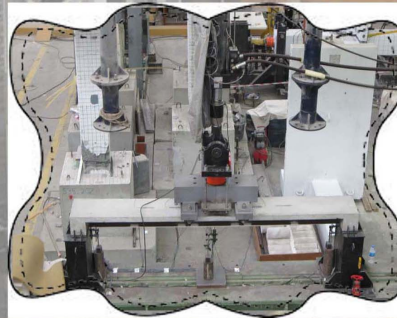
2011



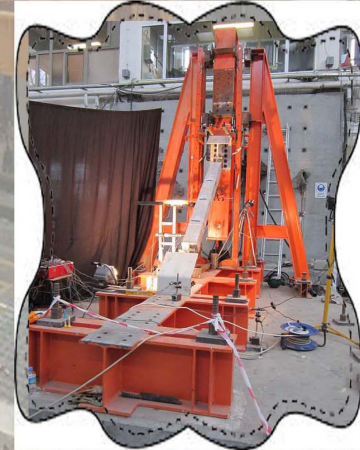
1997



2002

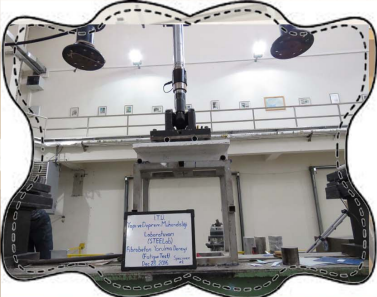


2011



2011

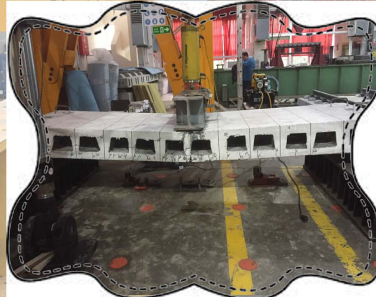
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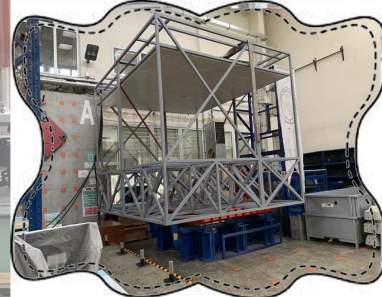
2016



2018



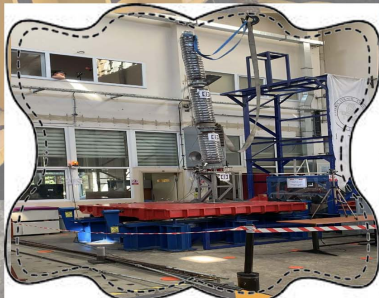
2018



2020



2021



2022



2022



2023