

# BI-DIRECTIONAL STATIC LOAD TEST



Bi-Directional Static Load Test or commonly known as “O-Cell Test” has become part of the regular foundation testing method around the world. It is a static load test where the hydraulic jack is embedded in the bored pile thus eliminate the needs of the reaction beams or reaction piles.

ARGES’s personnel has years of practical experience in executing the Bi-Directional Static Load Test. Our Engineers are well-trained in both field instrumentation as well as technical reporting. We are able to provide onsite training and assistance to our client to ensure smooth installation and testing of the pile.

## TEST BENEFITS:

1. HIGH TEST LOAD
2. REDUCE WORK AREA
3. TEST ROCK SOCKET
4. TEST KINGPOST PILE
5. IMPROVED SAFETY
6. ONE DAY TEST SETUP
7. EMBEDDED STRAIN GAUGE FOR LOAD DISTRIBUTION ANALYSIS



JACK: MULTIPLE SIZE AND CAPACITIES

STROKE: 160MM TO 230MM

RATED PRESSURE: 10,000 PSI

Reference Standards: ASTM D8169/D8169M-18 SINGAPORE TR63:2018

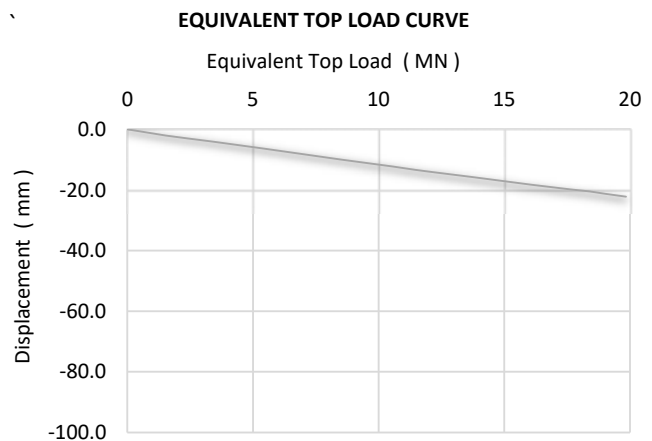
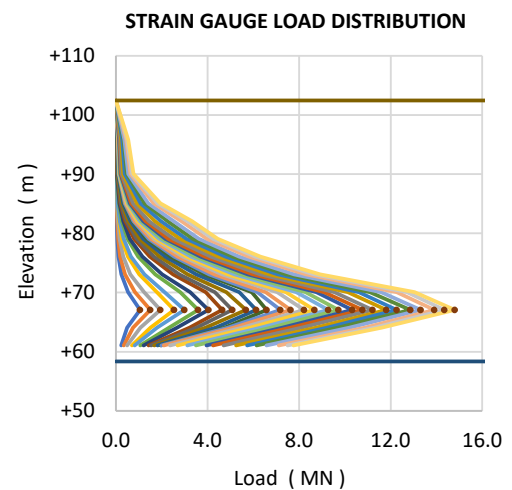
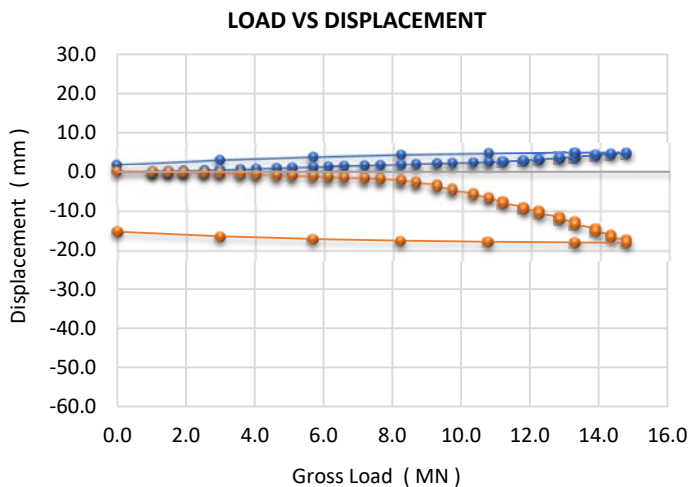
For more information, please contact: [intouch@arges.com.sg](mailto:intouch@arges.com.sg)

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## TEST RESULT

Bi-Directional Load Test can be performed by using Procedure A – Quick Test or Procedure B – Extended Test (Optional) as per the latest ASTM standard D8169 – Standard Test Methods for Deep Foundations Under Bi-Directional Static Axial Compressive Load.

During the test, the load displacement curve and strain gauge load distribution curve will be shown on the test laptop in real time. Data analysis and reporting work will be carried out by ARGES Engineer by adopting industrial recognized analysis method.



For more information, please contact: [intouch@arges.com.sg](mailto:intouch@arges.com.sg)



# SELECTED PROJECT PHOTOGRAPHS



Singapore – 7240 Ton BDSLT Test Pile



Singapore – 7500 Ton BDSLT Test Pile



Singapore – 6730 Ton BDSLT Test Pile



Malaysia – 7160 Ton BDSLT Test Pile



Malaysia – 1200 Ton BDSLT Test Pile



Malaysia – 2400 Ton BDSLT Test Pile

For more information, please contact: [intouch@arges.com.sg](mailto:intouch@arges.com.sg)



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