

# Technical Presentation on the Innovative “Press-in Piling Method”

## INTRODUCTION

Since 1975, Giken has been a press-in piling technology global leader that focuses on construction and engineering solutions based on the press-in piling method. Press-in piling is a non-vibratory, minimal noise hydraulic method of pile installation that Giken’s construction methodologies are developed from to minimize environmental impacts during construction while enabling the development and placement of structures that can better protect communities from natural disasters. Giken strives to ensure success on construction projects by providing total package solutions based on the “Five Construction Principles” which are: safety, environmental protection, economy, speed, and aesthetics. With the application of the press-in piling method on construction projects, these five principles can be optimized to their full potential equally to benefit project owners, contractors, and the general public. Giken’s total package solutions also include engineering services such as geotechnical/feasibility study, design review, price estimation, machine supply, construction management, and material supply (if needed).

We would like to invite your company to attend a technical presentation to educate participants on Giken’s press-in piling methods and to showcase its benefits for constructability, installation procedures, technical design, and global case studies.

## WHAT IS PRESS-IN?

With the press-in piling method, prefabricated piles are installed into the ground without vibration and with minimal noise impacts using static loading generated from hydraulic rams. The reaction force is derived from the extraction resistance of previously installed piles. This allows for the utilization of relatively small press-in machines which generate a greater force by homogenizing with the ground. Different types of press-in piling machines are able to install steel sheet and pipe piles within various types of constraints including low headroom, limited side clearance, accessibility, marine conditions, and other types of constraints in which press-in machines can eliminate the necessity of temporary work.

The press-in method originated in Japan and over the years, it has been widely used around the world through successful applications. The Press-in Method has also been used in the US market for many years.



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# Press-in Piling Method Achievements

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- Bridge Abutment / Pier Reinforcement



- Flood Protection



- Port & Seawall Improvement



- Support of Excavation Adjacent to Railways



- Support of Excavation in Heart of Urban Areas



- Landslide Protection

- Achievement Information Link

<http://www.gtoss.net/en/pressin-archive>