

# Construction Revolution

An efficient wall structure combining Tubular Piles (Strength & Stiffness) and Hat Sheet Piles (Watertightness)

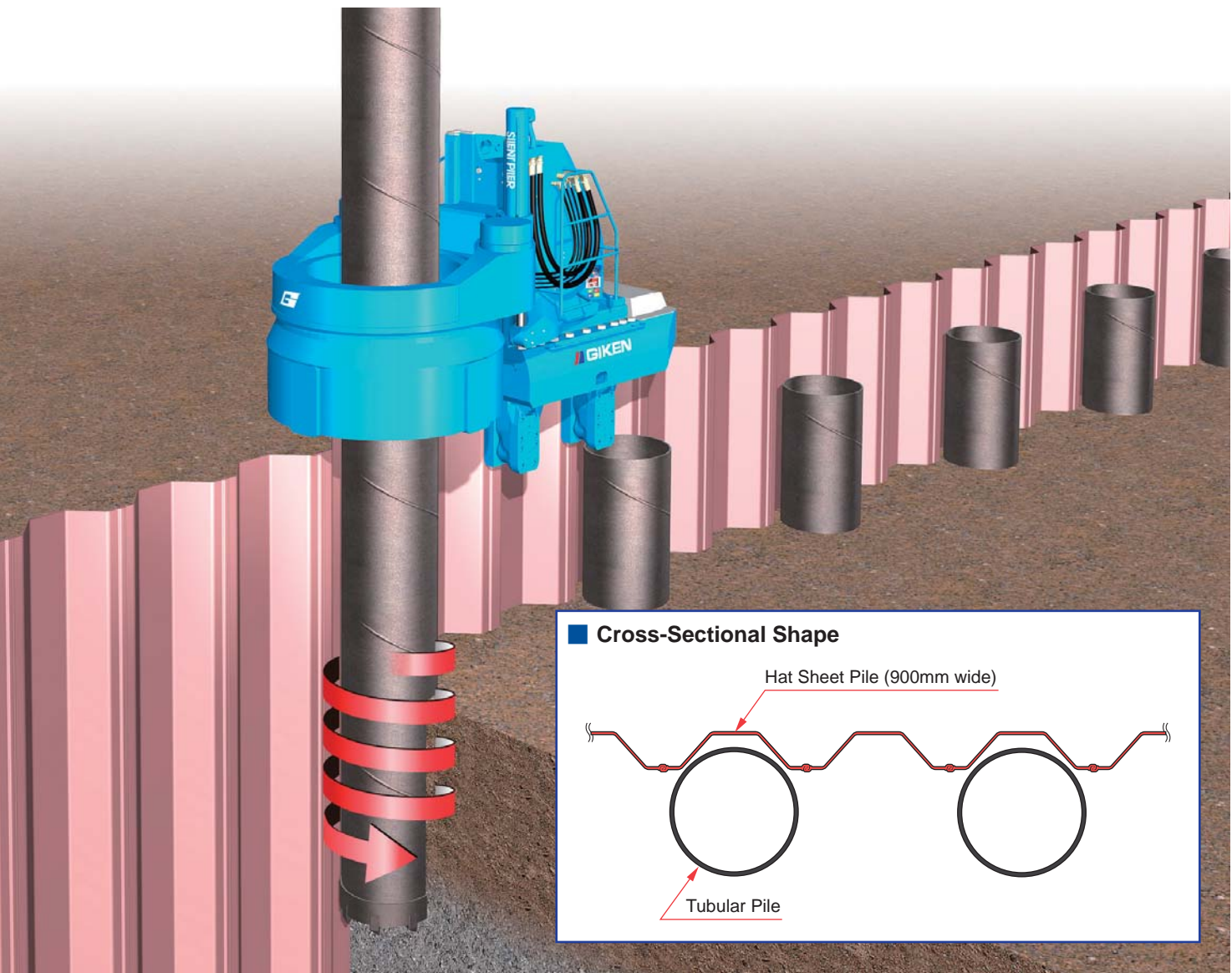
## Combi-Gyro Method





# Combi-Gyro Method

- Building Highly Stiff Wall Structure with Excellent Watertightness
- Hat Sheet Piles and Tubular Piles can be installed by the same Press-in Machine



## Press-in Work Operation

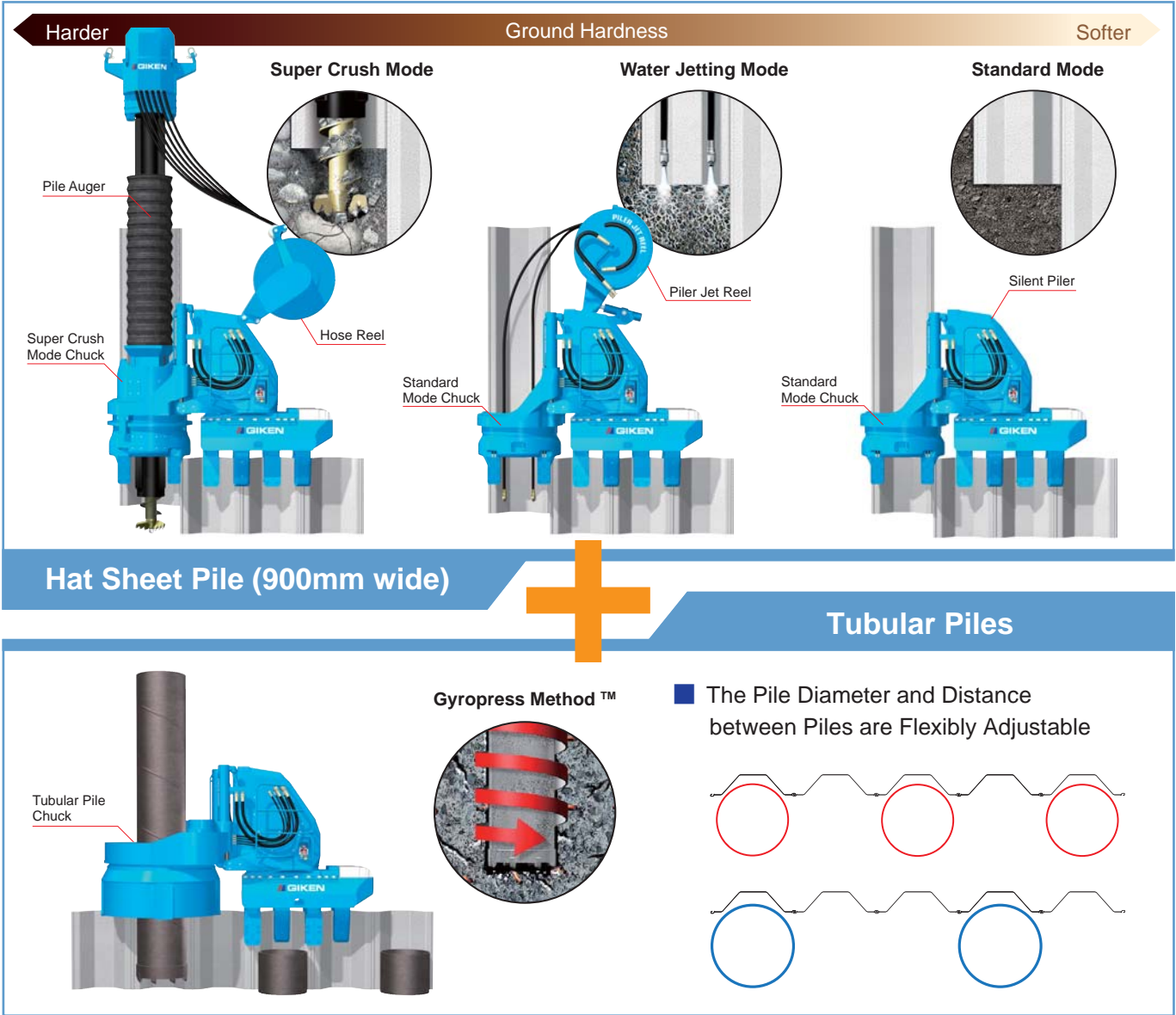


Installation in Progress



Post Excavation

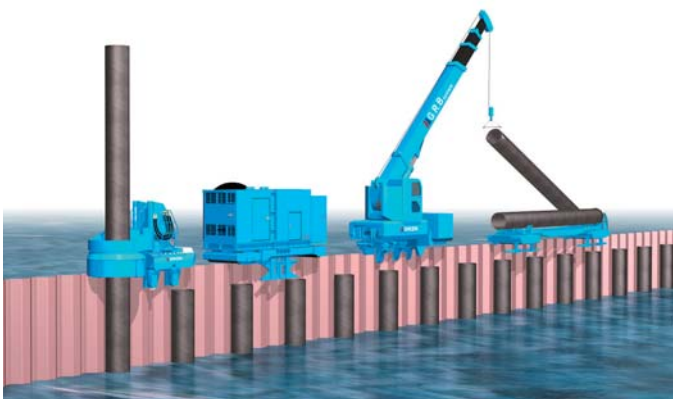
## Hat Sheet Piles and Tubular Piles can be installed by the same Press-in Machine



## Work is Possible under Severe Construction Conditions

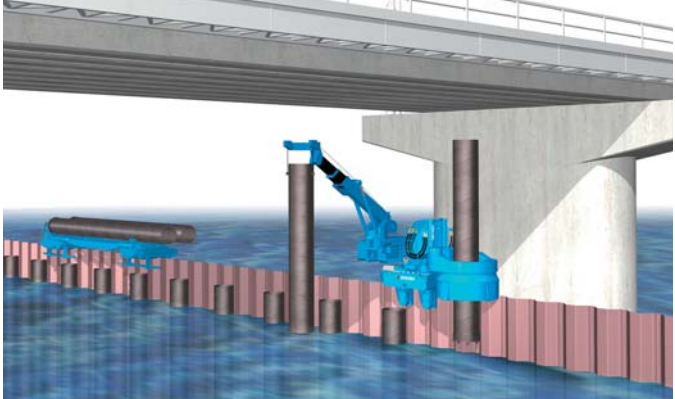
- All piling procedures can be carried out on the pressed-in piles with GRB System and enables fast construction at various places with emilinating temporary works.

### Non-Staging System



Systemized method for over water, in narrow space, or on sloping or uneven ground

### Overhead Clearance System

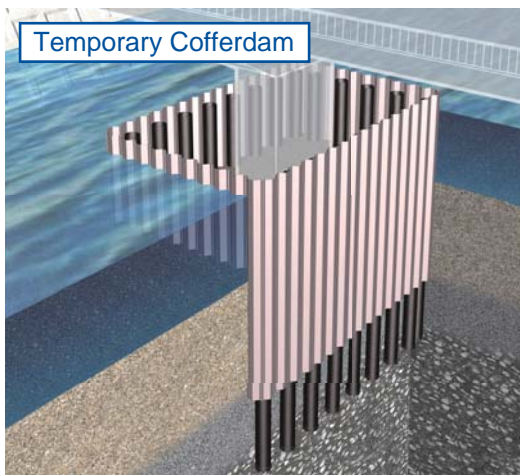


Systemized method overcoming overhead restriction

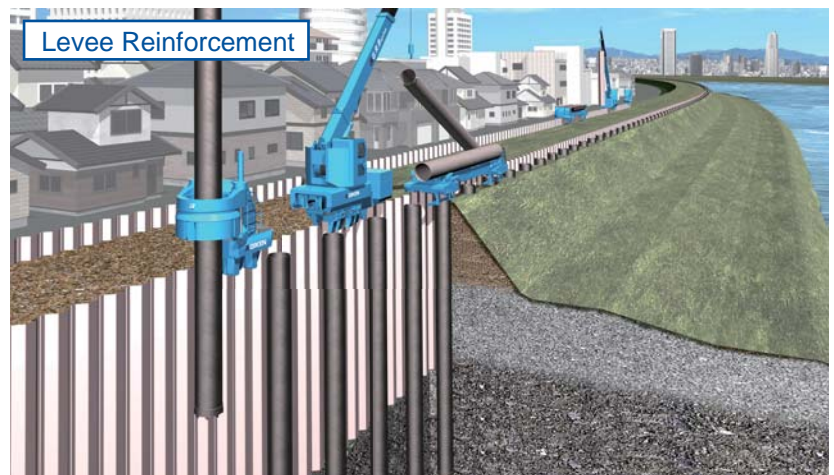


## Practical Example

- Building a rational and very economic wall structure by adjusting pile length of Hat sheet piles and pile diameter, pile length, and distance between piles of Tubular piles in accordance with height of wall structure and ground conditions.



Excellent Waterproofing and  
The Wall Structure is Easily Dismantled



Very Suitable for Fast Construction for Anti-Seismic Reinforcement and  
Liquefaction Measures

**GIKEN** Construction Solutions Company

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The Combi-Gyro Wall System is a joint development between GIKEN LTD. and NIPPON STEEL & SUMITOMO METAL CORPORATION.