







Change the Old Standard by Adaptation to Hard Ground

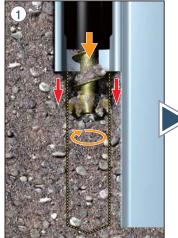
Adaptation of vastly-experienced "Hard Ground Press-in Method"

The "Coring Theory", a GIKEN's original theory, makes the Hard Ground Press-in Method enable to install sheet piles into difficult ground conditions such as sandy gravel and boulder layers without losing advantages of the Press-in Method. Previous models of Crush Piler have approved the superiorities of the Hard Ground Press-in Method in the market. The Pile Auger loosens the minimum area of ground as a driving assistance of the Press-in. It minimises discharging volume of soil and disturbance to the soil strata. Hence, high bearing capacity is available from sheet piles which are installed by the Hard Ground Press-in Method. The Hard Ground Press-in Method can install sheet piles even under restricted site conditions such as at slopes and on the water where conventional piling techniques would be ineffective. By adapting the GRB System, temporary work platforms are no longer necessary. It dramatically reduces environmental burden.

Simultaneous Press-in with Coring

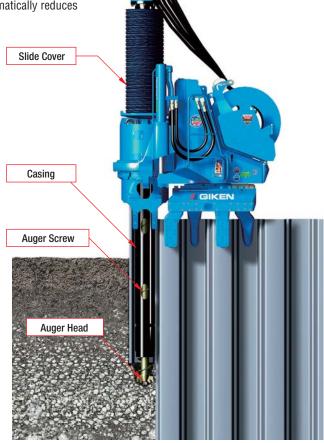




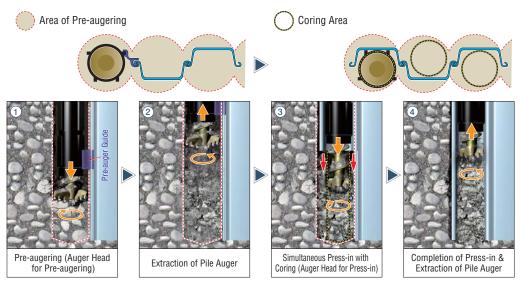


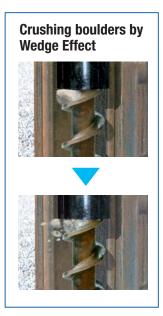






Pre-augering Press-in





Auger Motor

Integrated Functions for High Quality Performance

Locking Function for Higher Flexible Speed Setting **Piling Quality**

During augering work, Chuck is fixed by the chuck rotation locking function and Leader Mast is fixed by the leader mast rotation locking function as well. These locking systems can generate more efficient load transfer from auger motor to auger bits. It greatly improves sheet piling quality.

Chuck Rotati

Reaction of

Auger Rotation

Press-in Force

Auger Rotation

Augering (Coring)

Reduce

Force

Function for Different Ground Conditions

The speeds of Chuck Up & Down and Auger Rotation can be adjusted flexibly in accordance with hardness and characteristics of soil condition. It increases augering efficiency and minimises volume of soil discharge.

Locking Leader

Mast Rotation

Reactive Force of **Auger Rotation**

Reactive Lifting

Reaction Base

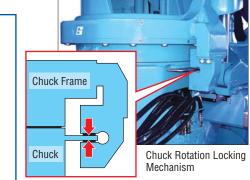
Extraction Resistance Force of ReactionPiles

Force

Reaction

Lightweighted & Compact Machine for Easy Handlings

The weight of ECO400S is much lighter than conventional piling rigs. Environmental burden can be greatly reduced in transportation. Moreover, the compactness has brought safe and smooth works for erection work and self-moving operation.



■ Radio Controller & Multi-Function Monitor

All operations of Pile Auger, Piler Jet and IT System are controlled by a single radio controller. Operator can check real time information such as press-in force and auger torque force

from Multi-Function Monitor.







Change the Old Standard by Adaptation to Hard Ground

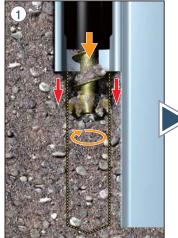
Adaptation of vastly-experienced "Hard Ground Press-in Method"

The "Coring Theory", a GIKEN's original theory, makes the Hard Ground Press-in Method enable to install sheet piles into difficult ground conditions such as sandy gravel and boulder layers without losing advantages of the Press-in Method. Previous models of Crush Piler have approved the superiorities of the Hard Ground Press-in Method in the market. The Pile Auger loosens the minimum area of ground as a driving assistance of the Press-in. It minimises discharging volume of soil and disturbance to the soil strata. Hence, high bearing capacity is available from sheet piles which are installed by the Hard Ground Press-in Method. The Hard Ground Press-in Method can install sheet piles even under restricted site conditions such as at slopes and on the water where conventional piling techniques would be ineffective. By adapting the GRB System, temporary work platforms are no longer necessary. It dramatically reduces environmental burden.

Simultaneous Press-in with Coring

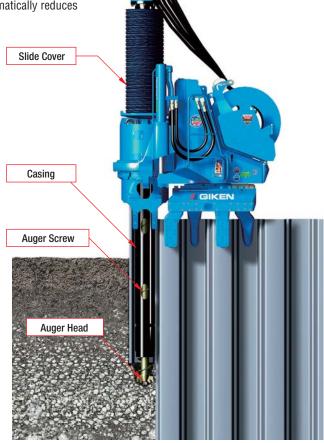




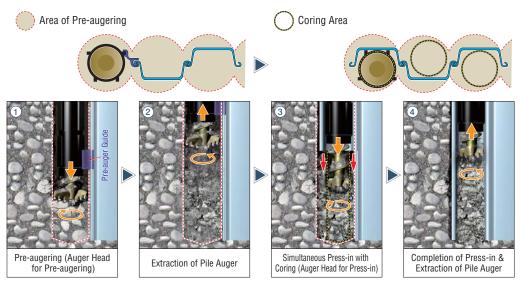


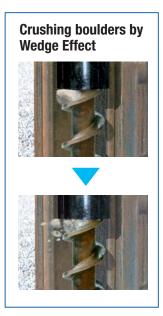






Pre-augering Press-in





Auger Motor

Integrated Functions for High Quality Performance

Locking Function for Higher Flexible Speed Setting **Piling Quality**

During augering work, Chuck is fixed by the chuck rotation locking function and Leader Mast is fixed by the leader mast rotation locking function as well. These locking systems can generate more efficient load transfer from auger motor to auger bits. It greatly improves sheet piling quality.

Chuck Rotati

Reaction of

Auger Rotation

Press-in Force

Auger Rotation

Augering (Coring)

Reduce

Force

Function for Different Ground Conditions

The speeds of Chuck Up & Down and Auger Rotation can be adjusted flexibly in accordance with hardness and characteristics of soil condition. It increases augering efficiency and minimises volume of soil discharge.

Locking Leader

Mast Rotation

Reactive Force of **Auger Rotation**

Reactive Lifting

Reaction Base

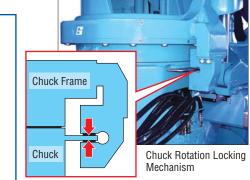
Extraction Resistance Force of ReactionPiles

Force

Reaction

Lightweighted & Compact Machine for Easy Handlings

The weight of ECO400S is much lighter than conventional piling rigs. Environmental burden can be greatly reduced in transportation. Moreover, the compactness has brought safe and smooth works for erection work and self-moving operation.



■ Radio Controller & Multi-Function Monitor

All operations of Pile Auger, Piler Jet and IT System are controlled by a single radio controller. Operator can check real time information such as press-in force and auger torque force

from Multi-Function Monitor.







GIKEN's Original Accessories for Better Work Efficiency



* Details of majyor accessories depend on purchase mode



www.giken.com

GIKEN LTD.

Global Network: Japan, UK, Germany, USA, Singapore, China

International Business Department

3948-1 Nunoshida, Kochi-shi, Kochi 781-5195, Japan

Tel.: +81-(0)88-846-2980 Fax: +81-(0)88-826-5288

Email: international@giken.com

For more contact information, please visit: http://www.giken.com/en/contactus/groupcompanies