**Super Crush Mode**

The F401 features a new modular design developed by optimizing all its parts while drastically modifying its structure, shape, and material. Not only are its main component parts more versatile; the F401 is also equipped with a cutting-edge control system that recognizes high functionality with a longer operation life.

**Silent Piler F401**

**Flexible and Functional Formula**

The F401 features a new modular design developed by optimizing all its parts while drastically modifying its structure, shape, and material. Not only are its main component parts more versatile; the F401 is also equipped with a cutting-edge control system that recognizes high functionality with a longer operation life.

### 1 Optimizing Work Efficiency with Modular Design

The Silent Piler F401 is applicable to Standard, Water Jetting, and Super Crush press-in work by changing the chuck, chuck frame, and adaptable attachments. The machine can be utilized more efficiently since it adapts to various soil and working conditions.

### 2 New Control System

The new control system manages the position of the press-in machine and controls load generation from press-in work during operation; maximizing the durability of each part. Also, control of the machine is remarkably improved by the Press-in Force Control System and the Phaseless Linear Auger Torque Control System.

### 3 Multi-position Clamps

The clamp pitch is adjustable to multiple positions by using a hydraulic system for over 40 types of sheet piles without disassembly.

### 4 For Wider Z & U Sheet Piles

The F401 has been designed to press-in 2 sheet piles simultaneously up to a total width of 55.75 in.

#### Z Sheet Piles

- Minimum width of Z sheet pile (22.63 in) - 22.63 in ~ 27.87 in
- Maximum width of Z sheet pile (27.87 in) - 27.87 in

#### U Sheet Piles*

- Minimum width of U sheet pile (22.63 in) - 22.63 in
- Maximum width of U sheet pile (27.87 in) - 27.87 in
- 23.62 in
- 27.55 in

* F401 is designed to press in a pair of 23.62 in and 27.55 in U sheet piles in pairs by using Double U chuck attachment.
5 Pile Installation into Hard Ground

The "Pilot Coring Theory", GIKEN's original theory, allows the Hard Ground Press-in Method to install sheet piles into difficult ground conditions such as gravelly soil and soils mixed with cobbles and boulders without losing the advantages of the Press-in Method. The augering area can be reduced to assist pile installation; minimizing volume of spoil and disturbance to the soil strata. Therefore, high bearing capacity is possible with sheet piles that are installed with the Hard Ground Press-in Method.

Press-in with the Pile Auger

Extracting the Pile Auger after completion of sheet pile installation

Crushing cobbles / boulders with wedge effect

Locking Function

Lock functions in the leader mast, chuck, and clamps secure the Silent Piler against drilling torque and increase drilling efficiency and accuracy of pile installation.

6 New Generation Power Unit EU300K4

Low Emission Engine

The Power Unit for the F401 is a new generation model with environmentally friendly specifications. It is designed with strict concepts for clean emissions with high combustion efficiency and with GIKEN's original hydraulic control technologies.

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Ultra Low Noise Level

It clears allowable construction noise levels in many industrialized countries.

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Standard Application of Biodegradable Oil

The F401 uses biodegradable Piler Eco Oil and Piler Eco Grease. Therefore, if hydraulic oil or grease is spilled into soil or water, there will be no environmental damage to the surrounding ecosystem. In addition, the machines are painted with TX-Free non-lead-based pigment.

7 Scientific Execution of Press-in Work & Advanced IT Functions

Scientific Execution of Press-in Work & Advanced IT Functions

GIKEN IT System

GIKEN's engineers can monitor individual Silent Pilers' operating condition, maintenance records, and location. Quick advice for any technical difficulties is available promptly. Appropriate information can also be provided to prevent additional issues.

Press-in Monitoring and Data Logging System

Press-in monitoring data can be used for quality control and for supporting information for foundations. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work on a tablet or PC (both devices optional).

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Dimensions & Specifications

Super Crush Mode

F401-C1400

<table>
<thead>
<tr>
<th>Power Unit</th>
<th>Diesel Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Output</td>
<td>355 HP / 1800 rpm</td>
</tr>
<tr>
<td>Eco Mode</td>
<td>316 HP / 1600 rpm</td>
</tr>
<tr>
<td>Super Eco Mode</td>
<td>276 HP / 1400 rpm</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>159 US gal</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>550 US gal</td>
</tr>
<tr>
<td>Max. Auger Length</td>
<td>98' 5.10&quot; (For Sheet Pile Length 78.74 ft)</td>
</tr>
<tr>
<td>Max. Pile Length</td>
<td>78.74 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hose Reel</th>
<th>Module Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass (Standard)</td>
<td>6106 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Piler Jet Reel (JR29)</th>
<th>Auger Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Pile Length</td>
<td>Standard 53.49 ft</td>
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<tr>
<td>Mass</td>
<td>2756 lb</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Piler Stage</th>
<th>Chuck Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass</td>
<td>8708 lb</td>
</tr>
</tbody>
</table>

Accessories

■ Basic

- Hose Roller
- Pile Laser
- Module Box
- Tablet PC (encased)

■ Optional

- Double U Chuck Attachment
- Piler Jet Reel (JR29)
- Piler Stage

■ Super Crush Mode

- Auger Head
- Auger Head Replacement Attachment
- Piler Stage with Chuck Stage

Power Source

- EU300K4

**F401**

Applicable Sheet Piles

- Z Sheet Piles 20.63 ~ 21.87 m
- U Sheet Piles 23.62 ~ 27.06 m

Max. Press-in Force

- 134.8 ton (US) / 159.6 ton (EU) (Super Crush Mode)
- 198.6 ton (US) / 226.4 ton (EU) (Water Jetting Mode)

Max. Extraction Force

- 179.8 ton (US) / 207.6 ton (EU) (Standard Mode)
- 232.8 ton (US) / 268.1 ton (EU) (Water Jetting Mode)

Press-in Speed

- 4.2 ~ 86.5 ft/min (Super Crush Mode)
- 3.2 ~ 65.3 ft/min (Water Jetting Mode)

Extraction Speed

- 3.0 ~ 86.5 ft/min (Super Crush Mode)
- 2.4 ~ 65.3 ft/min (Water Jetting Mode)

Control System

- Radio Control

Movement

- Set Moving

Mass

- Super Crush Mode (Main Body, Hose Reel, Casing Auger): 67615 lb
- Water Jetting Mode (Main Body, Piler Jet Reel): 58154 lb
- Standard Mode (Main Body): 56438 lb

Hose Reel

| Mass (Standard) | 6106 lb |

Pile Auger

| Applicable Pile Length | Max 78.74 ft |
| Mass | 5699 lb |

Piler Jet Reel

| Applicable Pile Length | Max 78.74 ft |
| Mass | 2756 lb |

| Mass | 2756 lb |

*Up to 98.42 ft with modification