SILENT PILER
F201
for U Sheet Piles
400-600mm wide
Modular model applicable to U Sheet Piles (400-600mm wide)

Silent Piler F201

Flexible and Functional Formula

The F201 features a new modular design developed by optimising all the parts and drastically modifying the structure, shape, and material. Not only are the main component parts more versatile, it is also equipped with a cutting-edge control system, and realising high functionality and longer operation life.

1 Applicable to 400-600mm wide U Sheet Pile and soft to hard ground conditions

F201 has wider adoptability and is applicable to Standard Mode, Water Jetting Mode, and Super Crush Mode and 400mm, 500mm and 600mm wide U sheet pile by changing the chuck and chuck frame, and equipping suitable attachments.

2 Longer Operational Life and Higher Functionality by 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, maximising 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 Pile Installation into Hard Ground

The "Pilot Coring Theory“, GIKEN's original theory, makes the Hard Ground Press-in Method able to install sheet piles into difficult ground conditions such as gravelly soil and cobble or boulder mixed soil without losing the advantages of the Press-in Method. The augering area can be reduced to assist pile installation, minimising volume of spoil 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.

4 Outstanding Environmentally-Friendly Design

Low Emission Engine

The Power Unit of the F201 is a new generation model and has environmentally-friendly specifications. It is designed with strict concepts for clean emissions with high combustion efficiency and GIKEN's original hydraulic control technologies.

Ultra Low Noise Level

It clears allowable construction noise levels in many industrialised countries.

Standard Application of Biodegradable Oil

The F201 uses bio-degradable Piler Eco Oil and Piler Eco Grease. Hence, 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-leaded paint.

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

GIKEN IT System

GIKEN's engineers can monitor individual Silent Pilers, such as operating condition, maintenance records and location. Quick advice for any technical troubles is available promptly and appropriate information can also be provided to prevent troubles.

Press-in Monitoring and Data Logging System

Press-in monitoring data can be used for quality control and information modelling of the foundation. 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 optional extras).
**Dimensions & Specifications**

### Power Unit

- **F201 Specifications**

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**Chuck Mass**

- **Super Crush Mode**

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<th>500, 600 mm</th>
<th>400 mm</th>
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<tr>
<td>Standard Mode Chuck</td>
<td>2850 kg</td>
<td>2550 kg</td>
</tr>
<tr>
<td>Super Crush Mode Chuck</td>
<td>3410 kg</td>
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*The above specifications are subject to alteration without prior notice.*
**F201 Project Data Sheet**

### F201 Demonstration Test
- **Project**: Cofferdam Test Piling
- **Location**: Dong Gang Business District, Dalian China
- **Period**: November 2013 – December 2013
- **Silent Piler**: F201
- **Type of Sheet Pile**: U Sheet Pile SP
- **Pile Length**: 12m (Standard Mode), 24m (Super Crush Mode)

### Emergency Land Slide Remedial Works
- **Project**: Emergency Channel Construction Works
- **Location**: Oshima Town, Tokyo
- **Period**: March 2014 – May 2014
- **Silent Piler**: F201
- **Type of Sheet Pile**: U Sheet Pile SP
- **Pile Length**: 7.0 m

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**Accessories**

- **Standard Accessories**
  - Piler Stage
  - Chuck Stage *
  - Auger Head Replacement Attachment *
  - Casing Scraper *
  - Roller Holder
  - Pile Roller
  - Hose Roller
  - Pile Laser
  - Module Box

- **Optional Accessories**
  - Piler Jet Reel (JR28)
  - Auger Head *

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**Borehole Log**

- **U Sheet Pile SP**
- **L = 24.0 m**

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**Muddy CLAY**

- **Fine SAND**
- **Moderately Weathered DIABASE**
- **MODERATELY WEATHERED DIABASE**
- **GRANULAR SAND**
- **SANDY GRAVEL**
- **MUD**
**Drainage Restoration Works in Dense Residential Area**

Project: Machida City Public Sewer System, Storm-Water Sewer Construction Works  
Location: Machida City, Tokyo  
Period: May 2013  
Silent Piler: F201  
Type of Sheet Pile: U Sheet Pile SP EDIATE  
Pile Length: 8.5 m

**River Dike Disaster Remedial Works**

Project: Embankment Restoration Work Section 4, Natori River  
Location: Natori City, Miyagi  
Period: September 2013 – October 2013  
Silent Piler: F201  
Type of Sheet Pile: U Sheet Pile SP EDIATE and SP 3W  
Pile Length: 7.5 – 16.5 m

**Installation of Sheet Pile Cut-off Wall into Hard Ground**

Project: Demolition of Miyagi Prefectural Public Health and Environment Bldg. - Second Phase  
Location: Sendai City, Miyagi  
Period: October 2013 – November 2013  
Silent Piler: F201  
Type of Sheet Pile: J Pocket Pile JFESP-4WS, U Sheet Pile SP EDIATE  
Pile Length: 4.0 – 7.5 m

Visit the following URL for more details.  
GIKEN Project Leaflet Database  
Data sheets can be searched and downloaded by category.