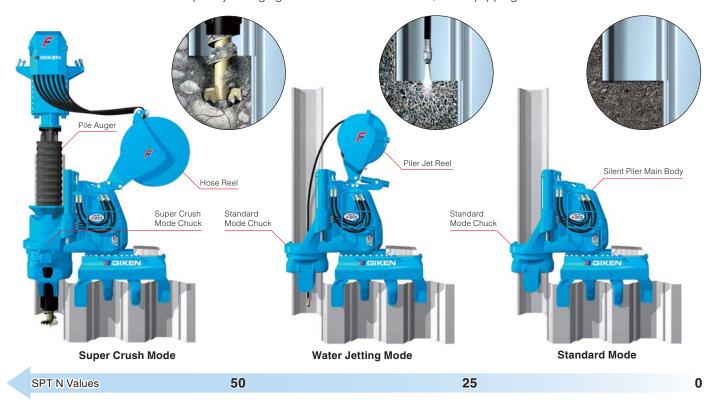






Applicable to 400-600mm wide U Sheet Pile and soft to hard ground conditions

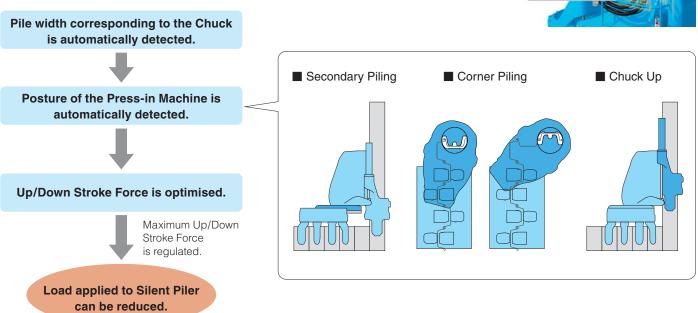
F201 has wider adoptability and is applicable to Standard Mode, Water Jetting Mode, and Super Crush Mode and 400mm, 500mm and 600mm wide U sheet pile by changing the chuck and chuck frame, and equipping suitable attachments.



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.

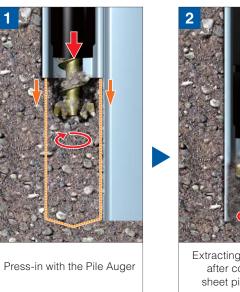


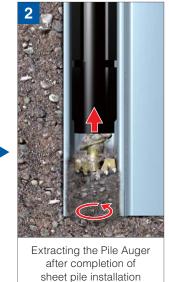


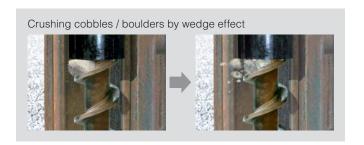


3 Pile Installation into Hard Ground

The "Directional 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.



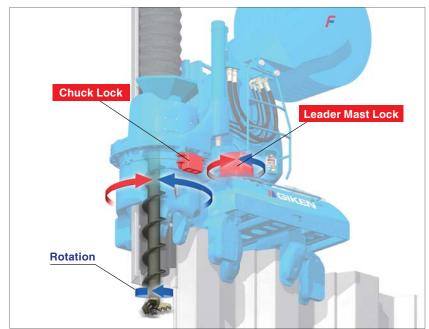




Pile Auger Auger Motor Slide Cover Auger Screw Casing Auger Head

Locking Function

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



Outstanding Environmentally-Friendly Design

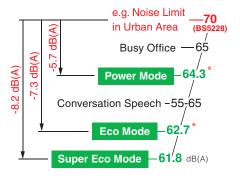
Low Emission Engine

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.



* Noise Level at 16m dB(A):A-weighted Decibels

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*.

* Environmentally-friendly paint which does not contain toluene, xylene and lead based pigment.



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

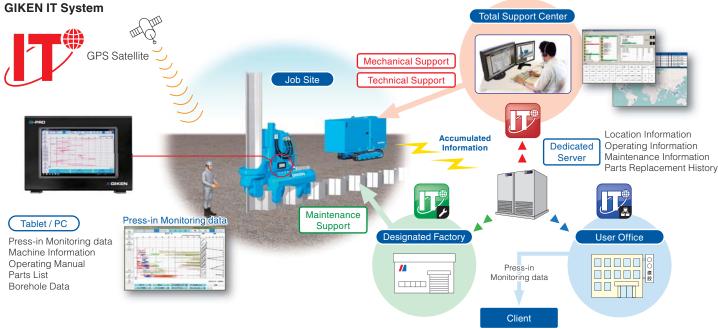
GIKEN IT System

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.

*The system is not available in the countries where authorisation for usage cannot be acquired.

Press-in Monitoring and Data Logging System

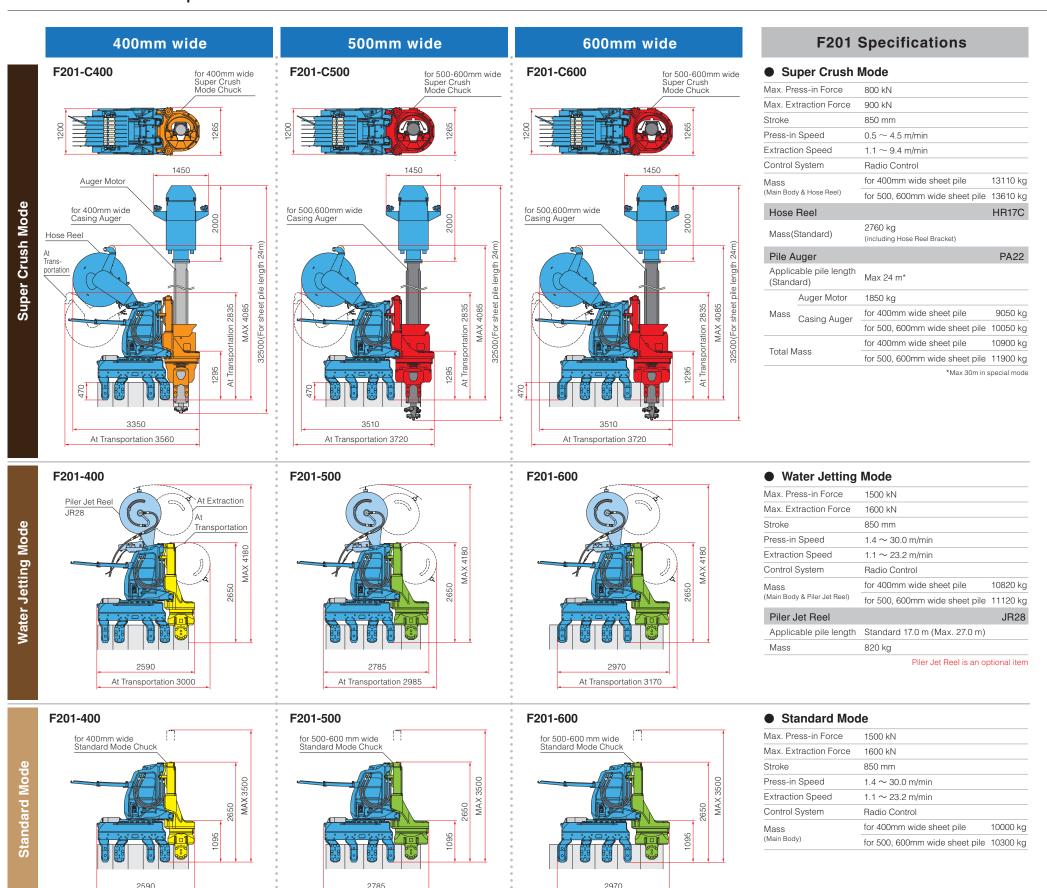
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).



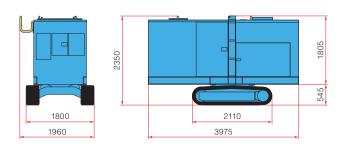
3



Dimensions & Specifications

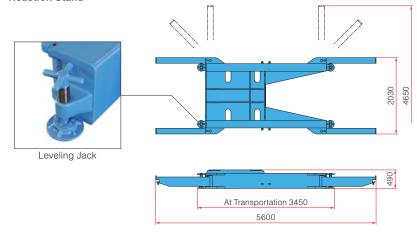


Power Unit



| Power Unit | | EU300I3 | |
|---------------------|----------------|---------------------------------------|--|
| Power Source | | Diesel Engine | |
| | Power Mode | 230 kW(313 ps)/1800 min ⁻¹ | |
| Rated Output | Eco Mode | 204 kW(278 ps)/1600 min ⁻¹ | |
| | Super Eco Mode | 179 kW(243 ps)/1400 min ⁻¹ | |
| Fuel Tank Capacity | | 500 L | |
| Hydraulic Reservoir | | Piler ECO Oil 490 L | |
| Moving Speed | | 1.4 km/h | |
| Mass | | 6400 kg (with 20m Hose) | |

Reaction Stand



| Reaction Stand (with Leveling Jack) | | |
|-------------------------------------|---------|--|
| Mass | 1900 kg | |

Chuck Mass

| Sheet Pile Width | Standard Mode Chuck | Super Crush Mode Chuck |
|------------------|---------------------|------------------------|
| 500, 600 mm | 2850 kg | 3400 kg |
| 400 mm | 2550 kg | 2900 kg |

The above specifications are subject to alteration without prior notice

6

5



Accessories

■ Standard Accessories







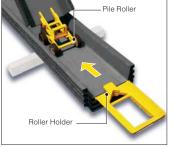


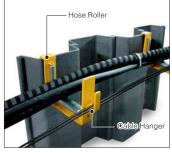
Piler Stage

Chuck Stage *

Auger Head Replacement Attachments *

Casing Scraper *









Pile Roller

Hose Roller

Pile Laser

Module Box



Auger Head *

* for 600mm wide only

Optional Accessories



Piler Jet Reel (JR28)

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 \mathbb{N} Pile Length: 12m (Standard Mode)

12m, 24m (Super Crush Mode)



▼ Borehole Log MUD Muddy CLAY Fine SAND

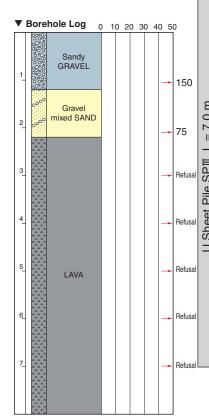
Moderately Weathered DIABASE

U Sheet Pile SPIV L = 24.0 m

■ 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 ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$

Pile Length: 7.0 m

■ 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 VIL

Pile Length: 8.5 m

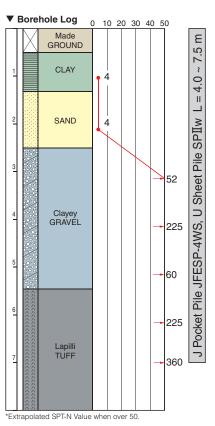
▼ Borehole Log 0 10 20 30 40 50

SAND

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

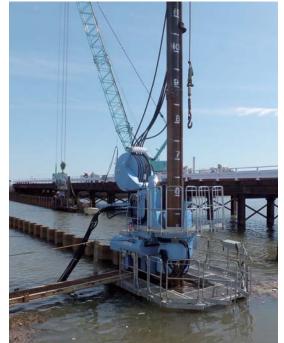
Period: October 2013 ~ November 2013

ilent Piler: F20

Type of Sheet Pile: J Pocket Pile JFESP-4WS, U Sheet Pile SP IIw

Pile Length: 4.0 ~ 7.5 m

River Dike Disaster Remedial Works







Drilling the existing RC Revetment

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 ${\rm I\hspace{-.1em}I\hspace{-.1em}I}{\rm w}$ and SP ${\rm I\hspace{-.1em}I\hspace{-.1em}V}{\rm w}$

Pile Length: $7.5 \sim 16.5 \text{ m}$

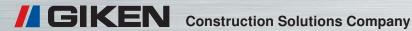
Visit the following URL for more details.

GIKEN Project Leaflet Database http://www.gtoss.net/en/pressin-archive



Data sheets can be searched and downloaded by category.

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