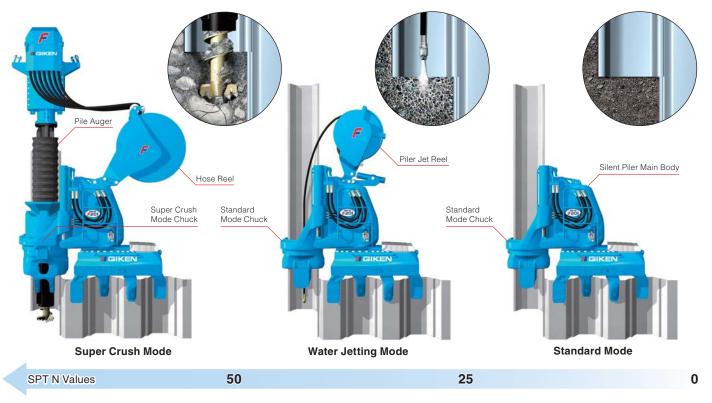


# Modular model applicable to U Sheet Piles (400-600mm wide)



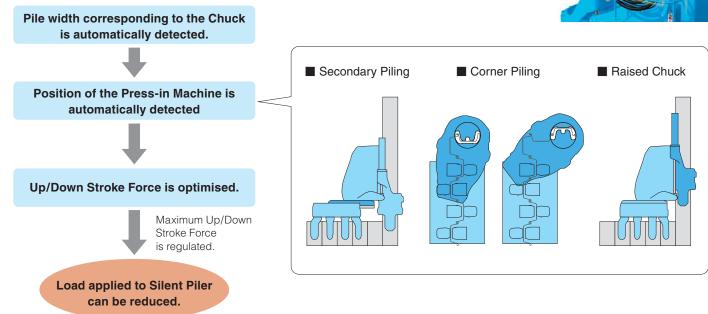
# Applicable to 400-600mm wide U Sheet Pile and soft to hard ground conditions

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.

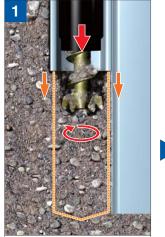


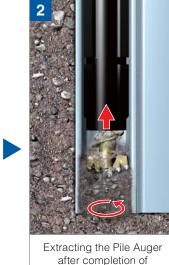




#### 3 **Pile Installation into Hard Ground**

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.





sheet pile installation

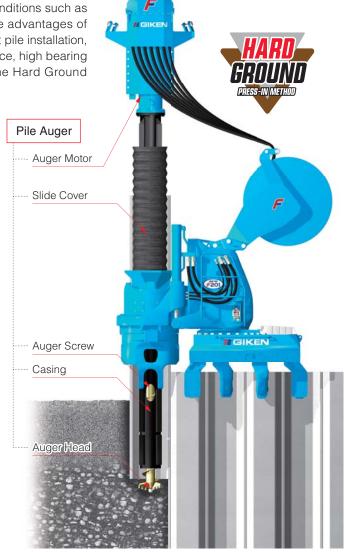
Press-in with the Pile Auger

Crushing cobbles / boulders by wedge effect



#### **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.



# Chuck Lock Leader Mast Lock Rotation

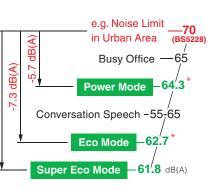
# **Outstanding Environmentally-Friendly Design**

dB(A)

#### **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.





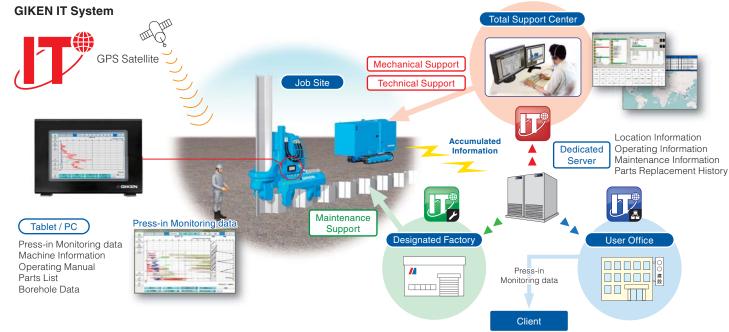
\* Noise Level at 16m

# 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.



#### **Ultra Low Noise Level**

It clears allowable construction noise levels in many industrialised countries.

dB(A):A-weighted Decibels

#### **Standard Application of Biodegradable Oil**

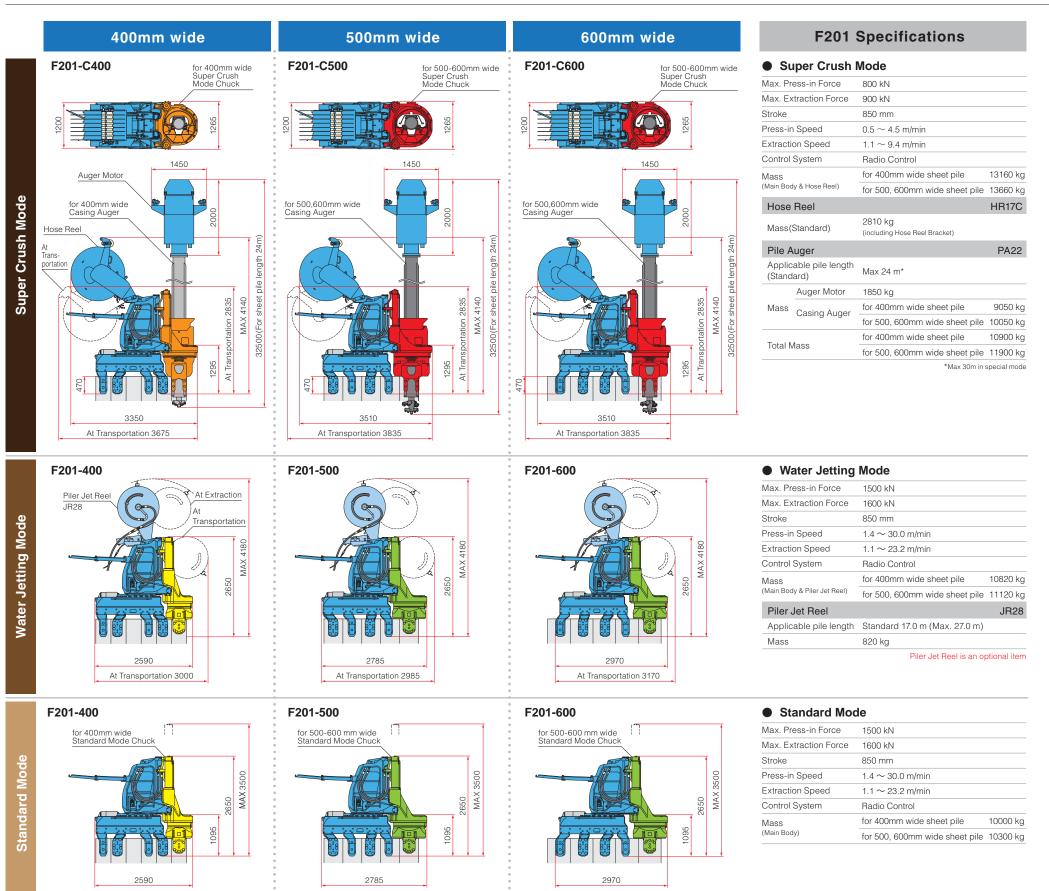
The F201 uses bio-degradable Piler Eco Oil and Piler Eco Grease. Hence, if hydraulic oil or grease is spilled into soil or water, there will be no environmental damage to the surrounding ecosystem. In addition, the machines are painted with TX-Free non-leaded paint\*

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



#### 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



**Reaction Stand** 

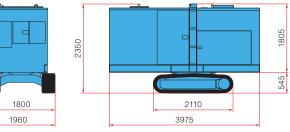


Leveling Jack

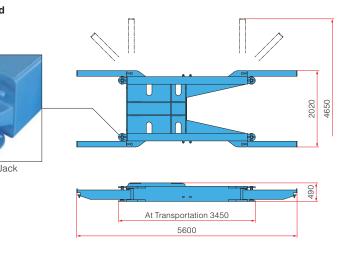
#### Chuck Mass

Sheet Pile 500, 60 400 r





Power Unit		EU300I3
Power Source		Diesel Engine
Rated Output	Power Mode	230 kW(313 ps)/1800 min <sup>-1</sup>
	Eco Mode	204 kW(278 ps)/1600 min <sup>-1</sup>
	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 (with Leveling Jack)		
Mass	1900 kg	

le Width	Standard Mode Chuck	Super Crush Mode Chuck
00 mm	2850 kg	3400 kg
mm	2550 kg	2900 kg

The above specifications are subject to alteration without prior notice



\* Available for Super Crush Mode only.

Casing

# F201 Project Data Sheet

#### F201 Demonstration Test



### Emergency Land Slide Remedial Works



# Accessories

#### Standard Accessories



ile Rolle





Hose Roller





Pile Laser



Module Box



Pile Roller

Roller Holde



#### Auger Head \*

#### Optional Accessories



Piler Jet Reel (JR28)









\* for 600mm wide only



Casing Scrape

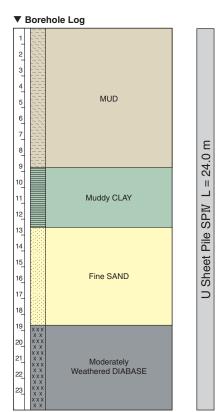




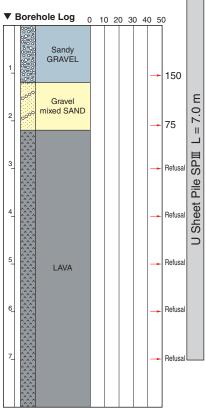




7



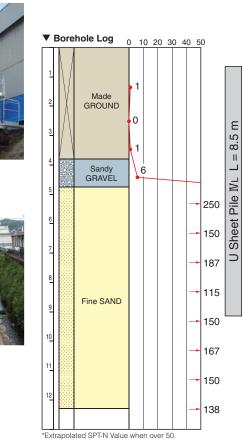




\*Extrapolated SPT-N Value when over 50.

**D**rainage Restoration Works in Dense Residential Area





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 IIw Pile Length: 4.0 ~ 7.5 m

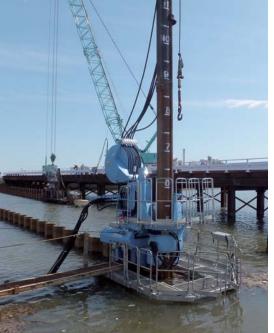
**River Dike Disaster Remedial Works** 

Location : Machida City, Tokyo

Period : May 2013

Type of Sheet Pile : U Sheet Pile SP VIL Pile Length: 8.5 m

Silent Piler : F201



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 IIw and SP IVw Pile Length : 7.5 ~ 16.5 m

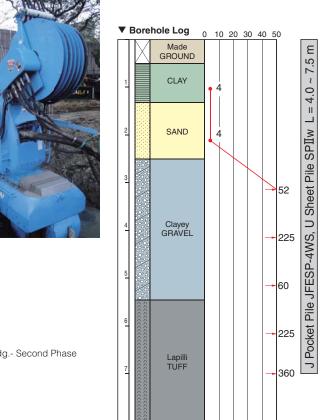
▼ Borehole Log 0 10 20 30 40 50 REVETMEN with Ø22m Rubble MOUND **22** 21 25 23 SAND

Е 16.5 | 2 U Sheet Pile SPII w and SPIV w L = 7.5 Visit the following URL for more details.

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

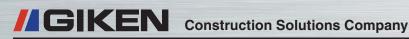


#### Installation of Sheet Pile Cut-off Wall into Hard Ground



ted SPT-N Value when over 50

Data sheets can be searched and downloaded by category.



#### www.giken.com

#### GIKEN LTD.

Global Network : Japan, USA, UK, Germany, 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