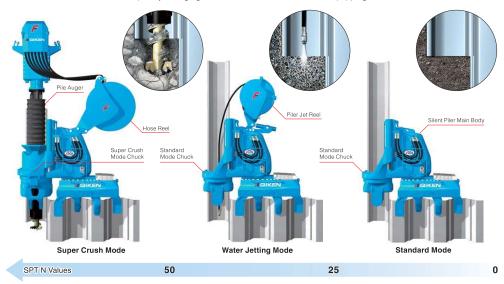






1 Applicable to 400-600mm wide U Sheet Pile and soft to hard ground conditions

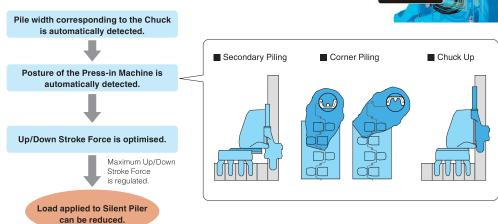
F201 has wider adoptability and is applicable to Standard Mode, Water Jetting Mode, and Super Crush Mode and 400mm, 500mm and 600mm wide U sheet pile by changing the chuck and chuck frame, and equipping suitable attachments.



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.

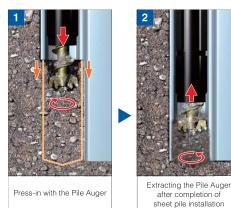






3 Pile Installation into Hard Ground

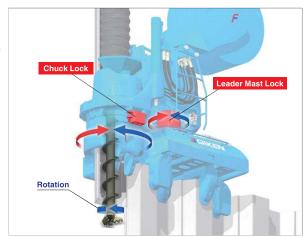
The "Directional Coring Theory", GIKEN's original theory, makes the Hard Ground Press-in Method able to install sheet piles into difficult ground conditions such as gravelly soil and cobble or boulder mixed soil without losing the advantages of the Press-in Method. The augering area can be reduced to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





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

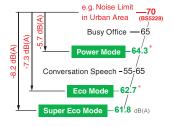
Low Emission Engine

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.

Biodegradable Oil
PIERECO
Oil & Grease

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

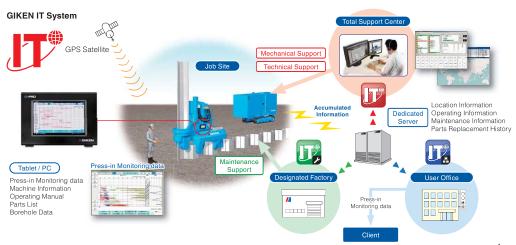
GIKEN IT System

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

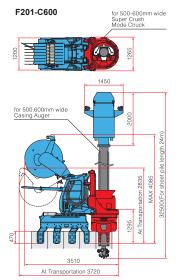
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).



3



Dimensions & Specifications

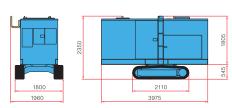


		•	
• Sı	iper Crush I	Mode	
Max. Pr	ess-in Force	800 kN	
Max. Ex	traction Force	900 kN	
Stroke		850 mm	
Press-ir	Speed	0.5 ~ 4.5 m/min	
Extracti	on Speed	1.1 ~ 9.4 m/min	
Control	System	Radio Control	
Mass		for 400mm wide sheet pile	13110 k
(Main Body & Hose Reel)		for 500, 600mm wide sheet pile	13610 k
Hose	Reel		HR170
Mass(Standard)	2760 kg (including Hose Reel Bracket)	
Pile Auger			PA22
Applic (Stand	able pile length ard)	Max 24 m*	
	Auger Motor	1850 kg	
Mass	Casing Auger	for 400mm wide sheet pile	9050 k
		for 500, 600mm wide sheet pile	10050 k
Total Mass		for 400mm wide sheet pile	10900 k
		for 500, 600mm wide sheet pile	11900 k

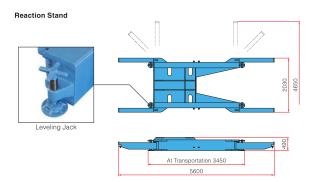
F201 Specifications

*Max 30m in special mode

Power Unit



Power Unit		EU30013
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 Cap	acity	500 L
Hydraulic Rese	ervoir	Piler ECO Oil 490 L
Moving Speed		1.4 km/h
Mass		6400 kg (with 20m Hose)

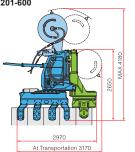


Reaction Stand (w	tand (with Leveling Jack)	
Mass	1900 kg	

Chuck Mass

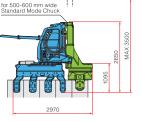
Sheet Pile Width	Standard Mode Chuck	Super Crush Mode Chuck
500, 600 mm	2850 kg	3400 kg
400 mm	2550 kg	2900 kg

F201-600



Main Body & Piler Jet Reel for 500, 600mm wide sheet pile 11120 l Piler Jet Reel JR2 Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Water Jetting Mode				
Stroke 850 mm Press-in Speed 1.4 ~ 30.0 m/min Extraction Speed 1.1 ~ 23.2 m/min Control System Radio Control Mass for 400mm wide sheet pile 10820 I/m wide sheet pile Piler Jet Reel JR2 Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Max. Press-in Force	1500 kN			
Press-in Speed 1.4 ~ 30.0 m/min Extraction Speed 1.1 ~ 23.2 m/min Control System Radio Control Mass for 400mm wide sheet pile 10820 t Wikini Body & Piler Jet Reel for 500, 600mm wide sheet pile 11120 t Piler Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Max. Extraction Force	1600 kN			
Extraction Speed 1.1 ~ 23.2 m/min Control System Radio Control Mass for 400mm wide sheet pile 10820 1 for 500, 600mm wide sheet pile 11120 1 Filer Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Ass 820 kg	Stroke	850 mm			
Control System Radio Control Mass (Main Body & Piler Jet Reel) for 400mm wide sheet pile 10820 H Piler Jet Reel jrc 500, 600mm wide sheet pile 11120 H Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Press-in Speed	1.4 ~ 30.0 m/min			
Mass (Main Body & Piler Jet Reel) for 400mm wide sheet pile for 500, 600mm wide sheet pile 11120 in 500, 600mm wide sheet pile 1120 in 500, 600, 600mm wide sheet pile 1120 in 500, 600mm wide sheet pile 1120 in 500, 600, 600, 600, 600, 600, 600, 600,	Extraction Speed	1.1 ~ 23.2 m/min			
Main Body & Piler Jet Reel for 500, 600mm wide sheet pile 11120 l Piler Jet Reel JR2 Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Control System	Radio Control			
Piler Jet Reel JR2 Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	Mass	for 400mm wide sheet pile	10820 kg		
Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg	(Main Body & Piler Jet Reel)	for 500, 600mm wide sheet pile	11120 kg		
Mass 820 kg	Piler Jet Reel		JR28		
	Applicable pile length	Standard 17.0 m (Max. 27.0 m)			
P1 1 1 P 11 P 12	Mass	820 kg			
Piler Jet Heel is an optional ite		Piler Jet Reel is an op	ptional item		

F201-600 for 500-600 mm wide Standard Mode Chuck



Max. Press-in Force	1500 kN	
Max. Extraction Force	1600 kN	
Stroke	850 mm	
Press-in Speed	1.4 ~ 30.0 m/min	
Extraction Speed	1.1 ∼ 23.2 m/min	
Control System	Radio Control	
Mass	for 400mm wide sheet pile	10000 kg
(Main Body)	for 500, 600mm wide sheet pile	10300 kg



Accessories

■ Standard Accessories







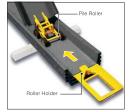


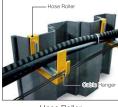
Piler Stage

Chuck Stage '

Auger Head Replacement Attachments *

Casing Scraper *









Pile Roller

Hose Roller

Pile Laser

Module Box





Auger Head *

* for 600mm wide only

Optional Accessories



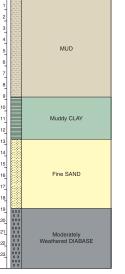
Piler Jet Reel (JR28)

F201 Project Data Sheet

F201 Demonstration Test



▼ Borehole Log



U Sheet Pile SPIV L = 24.0 m

Project : Cofferdam Test Piling

Location: Dong Gang Business District, Dalian China

Period: November 2013 ~ December 2013

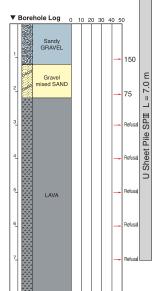
Silent Piler: F201

Type of Sheet Pile: U Sheet Pile SP IV Pile Length: 12m (Standard Mode)

12m, 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 Ⅲ

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 50 115 Fine SAND 150

▼ Borehole Log 0 10 20 30 40 50

REVETMEN (with \$22mm

SAND

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

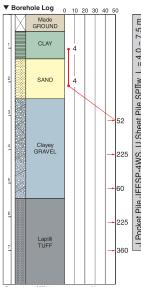
Type of Sheet Pile: U Sheet Pile SP IIw and SP IVw

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

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

Pile Length: 4.0 ~ 7.5 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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