

Modular model applicable to U Sheet Piles (500-600mm wide)

SIENIPIER 2014 Silent Piler F201A

/ GIKEN

500,600mm Wide

Super Crush Mode Chuck

Flexible and Functional Formula

The F201A 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.

500,600mm Wide

Standard Mode Chuck

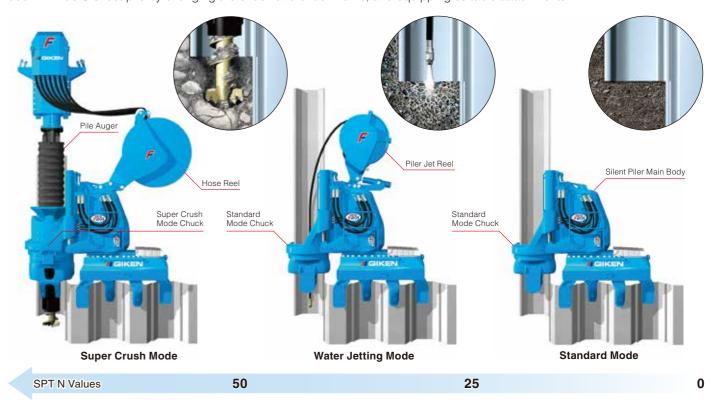
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Applicable to 500-600mm wide U Sheet Pile and soft to hard ground conditions

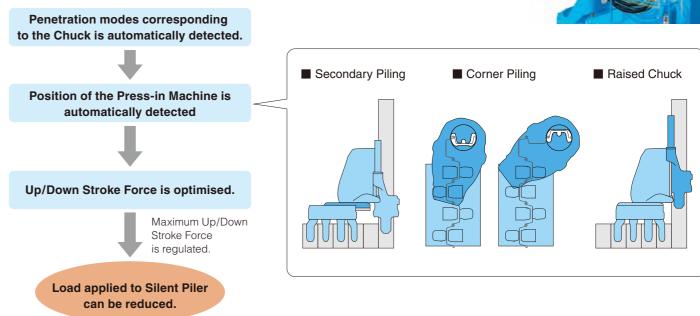
F201A has wider adoptability and is applicable to Standard Mode, Water Jetting Mode, and Super Crush Mode and 500mm, 600mm wide U sheet pile by changing the chuck and chuck frame, and equipping suitable attachments.



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.

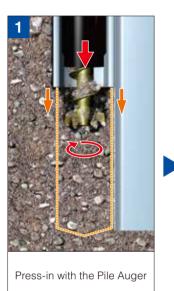






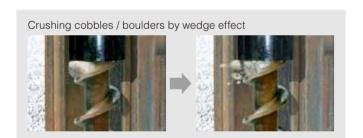
3 Pile Installation into Hard Ground

The "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.





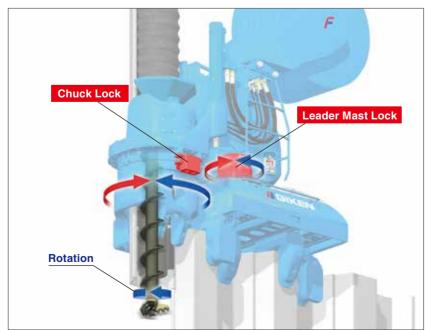
sheet pile installation



Pile Auger ----- Auger Motor ----- 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.



New Generation Power Unit EU300K4

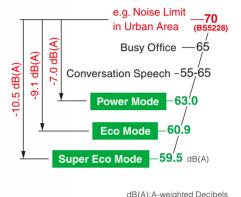
Low Emission Engine

The Power Unit of the F201A 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 F201A 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

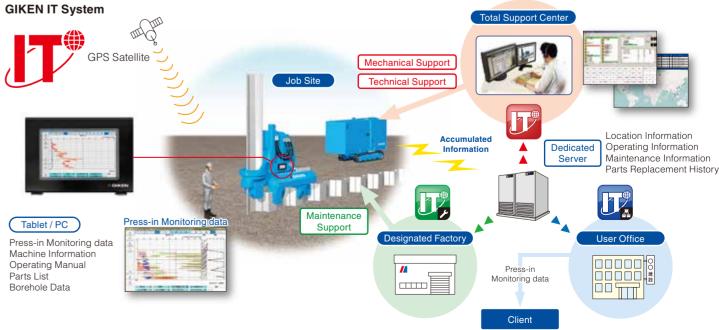
GIKEN IT System

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

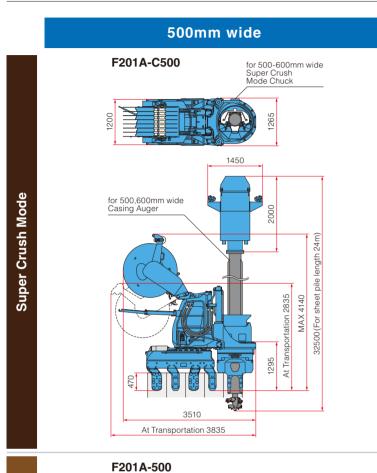
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).

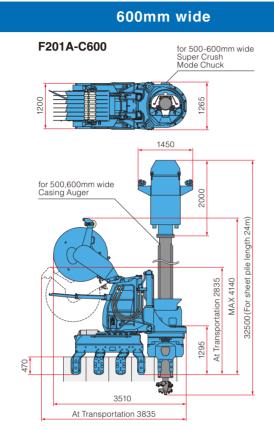


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Dimensions & Specifications

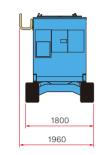


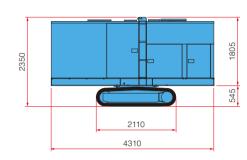


F201A Specifications Super Crush Mode Max. Press-in Force Max. Extraction Force Stroke Press-in Speed 0.5 ~ 4.5 m/min Extraction Speed 1.1 ~ 9.4 m/min Control System Radio Control Mass (Main Body & Hose Reel) for 500, 600mm wide sheet pile 13660 kg Hose Reel HR17C 2810 kg Mass(Standard) (including Hose Reel Bracket) Pile Auger PA22 Applicable pile length (Standard) Mass Auger Motor 1850 kg Casing Auger for 500, 600mm wide sheet pile 10050 kg for 500, 600mm wide sheet pile 11900 kg Total Mass

*Max 30m in special mode

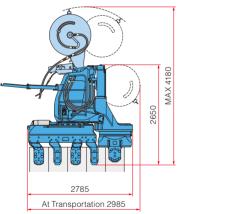
Power Unit

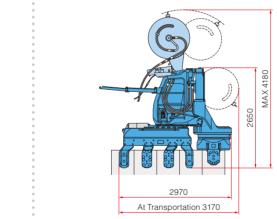




Power Unit		EU300K4	
Power Source		Diesel Engine	
	Power Mode	265 kW (360 ps) / 1800 min ⁻¹	
Rated Output	Eco Mode	236 kW (321 ps) / 1600 min ⁻¹	
	Super Eco Mode	206 kW (280 ps) / 1400 min ⁻¹	
Fuel Tank Capacity		600 L	
Hydraulic Reservoir		Piler ECO Oil 630 L	
Urea Additive Tank Capacity		38 L	
Moving Speed		1.4 km/h	
Mass		7250 kg (with 20m Hose)	

F201A-600





Water Jetting Mode		
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 (Main Body & Piler Jet Reel)	for 500, 600mm wide sheet pile 11120 kg	

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Mass	820 kg	
Applicable pile length	Standard 17.0 m (Max. 27.0 m)	
Piler Jet Reel		JR28
Mass (Main Body & Piler Jet Reel)	for 500, 600mm wide sheet pile	11120 kg

Piler Jet Reel is an optional item

Reaction Stand Leveling Jack At Transportation 3450

Reaction Stand (with Leveling	g Jack)
Mass	1900 kg

Chuck Mass

Standard Mode Chuck	Super Crush Mode Chuck
2850 kg	3400 kg

F201A-500 for 500-600 mm wide Standard Mode Chuck	7			
		1095 2650	MAX 3500	

F201A-600 for 500-600 mm wide Standard Mode Chuck			1
2970	1095	2650	MAX 3500

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 (Main Body)	for 500, 600mm wide sheet pile 10300 kg

Standard Mode

The above specifications are subject to alteration without prior notice







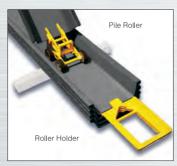
Casing Scraper

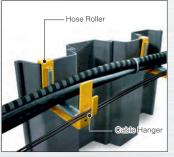
Piler Stage

Chuck Stage *

Auger Head Replacement Attachment *

Casing Scraper *









Pile Roller

Hose Roller

Pile Laser

Module Box



Auger Head *

* for 600mm wide only

Optional Accessories



Piler Jet Reel (JR28)



Construction Solutions Company

www.giken.com

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