

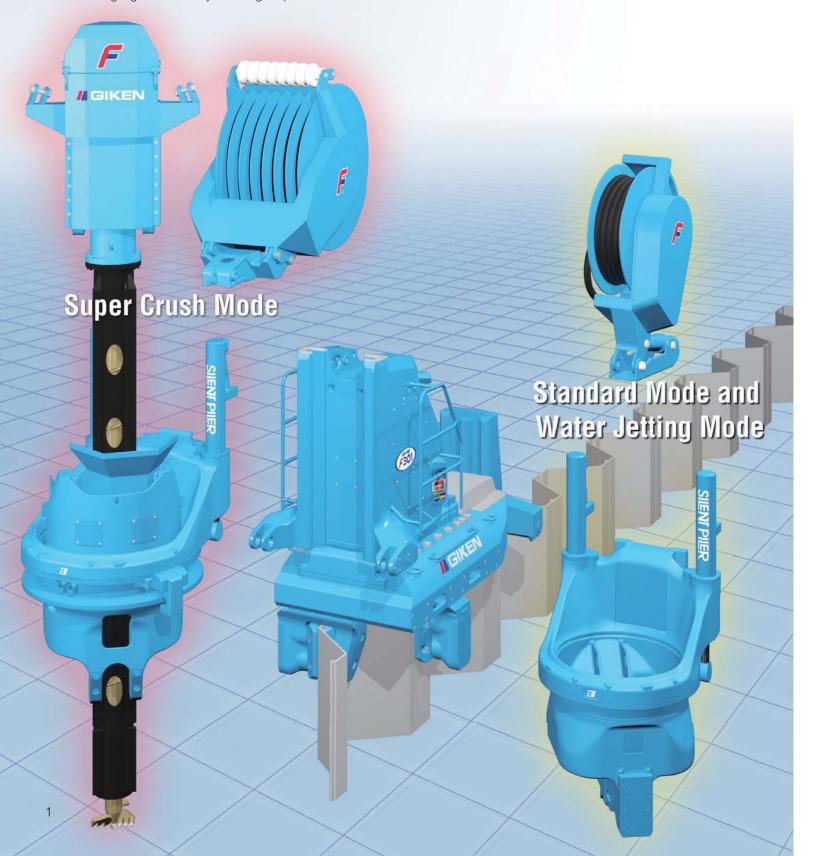
Modular model applicable for Z & U Sheet Piles

SIENI PIER 5301

Flexible and Functional Formula

The F301 features a new modular design developed by optimising all the parts and drastically modifying the structure, shape, and material.

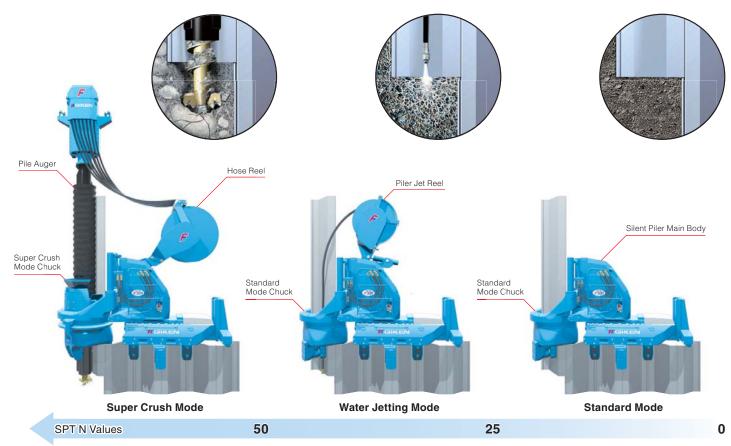
Not only are the main component parts more versatile, it is also equipped with a cutting-edge control system, and realising high functionality and longer operation life.





1 Optimising Work Efficiency with Modular Design

Silent Piler F301 is applicable to standard, water jetting, and super crush press-in works by changing the chuck and chuck frame, and equipping attachments. The machine can be utilised more efficiently because it is adjustable to various soil conditions and working conditions.



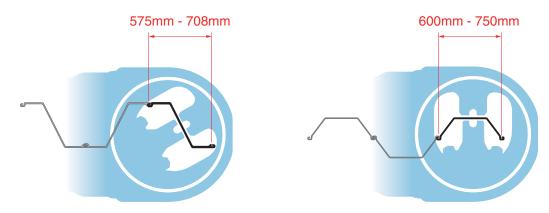
2 Longer Operational Life and Higher Functionality by New Control System

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 For Wider Z& U Sheet Piles

F301 has been desinged to press-in Z piles to 708mm wide and U piles up to 750mm wide.



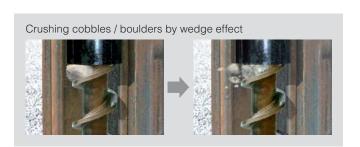


4 Pile Installation into Hard Ground

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.

Press-in with the Pile Auger

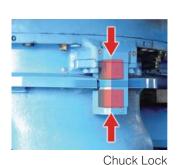


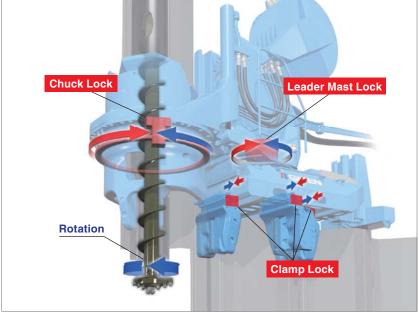


Pile Auger Motor Slide Cover Auger Screw Casing Auger Head

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

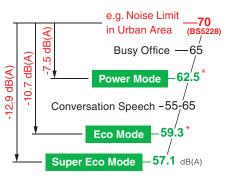
Low Emission Engine

The Power Unit of the F301 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 F301 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.



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

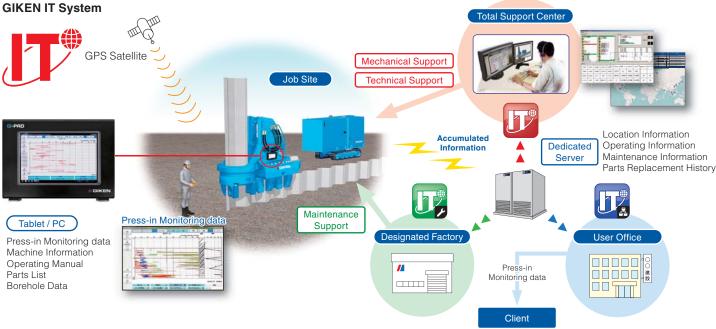
GIKEN IT System

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

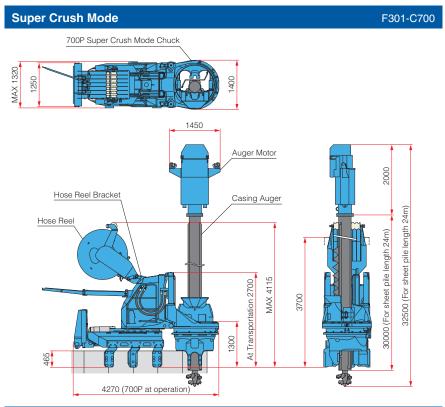
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).



3



Dimensions & Specifications



Standard / Water Jetting Mode	F301-700
700P Standard Mode Chuck	Piler Jet Reel is an optional item
JR Hose Guard	
Piler Jet Reel JR28 At Extraction At Transportation	
At Transportation 2665 MAX 4175 MAX 3415	
4060 (700P at operation)	

SILEN	T PILER		F30	
Applica	ble sheet piles	Z Sheet Piles (575~708 U Sheet Piles (600~750	,	
Max. Press-in Force		800kN (Super Crush Mode)	
		1000kN (Standard / Water Je	etting Mo	
Max. Extraction Force		900kN (Super Crush Mode)		
		1200kN (Standard / Water Jetting Mod		
Stroke		850 mm		
Press-in	Speed	2.0 ~ 43.5 m/min		
Extraction Speed		1.5 ~ 32.3 m/min		
Control	System	Radio Control		
Moveme	ent	Self-Moving		
Mass	Super Crush Mo (Main Body & Hose F		15780 k	
	Water Jetting M (Main Body & Piler Je		12820	
	Standard Mode (Main Body)		12000	
Hose F	Reel		HR17	
Mass (Standard)		2780kg (including Hose Reel Brack	ket)	
Pile Au	iger		PA2	
Applica (Standa	ble pile length rd)	Max 24 m *		
Mass	Auger Motor	1850 kg		
	Casing Auger	10050 kg		
Total Ma	ass	11900 kg		
		*Max 30m in s	pecial m	
Piler Je	et Reel		JR2	
Applica	ble pile length	Standard 17.0 m (Max. 27.0 m)		
Mass		820 kg		
Power	Unit	E	U300J	
Power S	Source	Diesel Engine		
Rated Output	Power Mode	237kW(322 ps) / 180	0 min ⁻¹	
	Eco Mode	211kW(287 ps) / 160	0 min-1	
	Super Eco Mode	188kW(256 ps) / 140	0 min ⁻¹	
Fuel Tank Capacity		500 L		
Hydraulic Reservoir		P11 - F00 01 455	Piler ECO Oil 490 L	
Hydraul	ic Reservoir	Piler ECO Oil 490 L		

1.4 km/h

The above specifications are subject to alteration without prior notice

6500 kg (with 20m Hose)

Reaction Stand At Transportation 4930

Reaction Stand (with Leveling Jack)

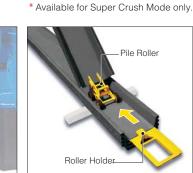
Moving Speed

Accessories

■ Standard Accessories







Chuck Stage*

Auger Head Replacement Attachments*

Pile Roller







Hose Roller

Pile Laser

Casing Scraper*

Module Box



Auger Head*

Optional Accessories



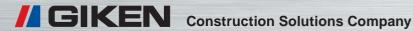


Piler Jet Reel (JR28)

Auger Head*

5

Power Unit



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