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Giken F301 Specification

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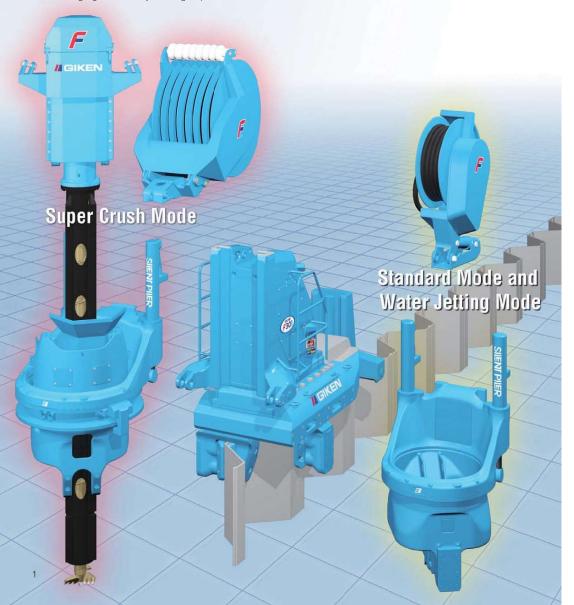
Modular model applicable to for Z & U Sheet Piles

SIENIPIER F301 Silent Piler F301

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.

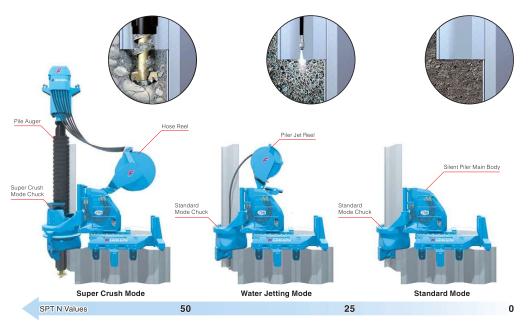
Not only are the main component parts more versatile, it is also equipped with a cutting-edge control system, and realising high functionality and longer operation life.





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.



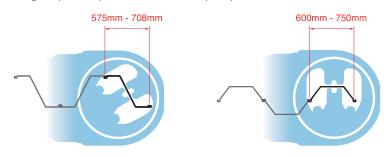
Longer Operational Life and Higher Functionality by New Control System

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.



For Wider Z & U Sheet Piles

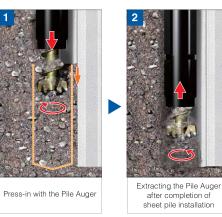
F301 has been desinged to press-in Z piles to 708mm wide and U piles up to 750mm wide.

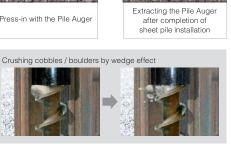




4 Pile Installation into Hard Ground

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.

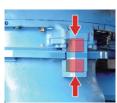




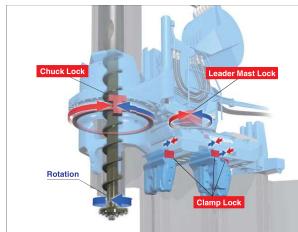


Locking Function

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



5 Outstanding Environmentally-Friendly Design

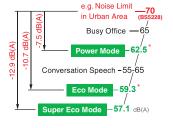
Low Emission Engine

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.



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.

Biodegradable Oil
PIERECO
Oil « Grease

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

* Noise Level at 16m

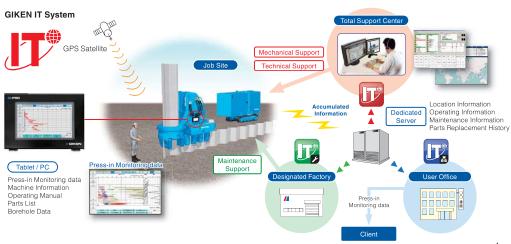
GIKEN IT System

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

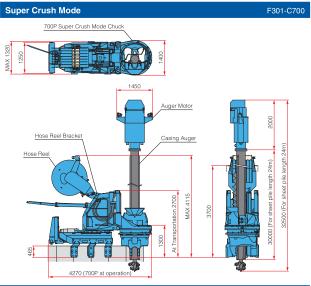
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).

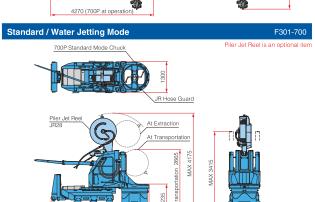


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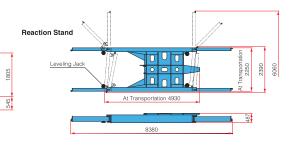


Dimensions & Specifications





	Γ PILER		F30	
Applicable sheet piles		Z Sheet Piles (575~708 U Sheet Piles (600~750		
Max. Press-in Force		800kN (Super Crush Mode	:)	
		1000kN (Standard / Water Jetting Mode		
Max. Extraction Force		900kN (Super Crush Mode)		
		1200kN (Standard / Water Jetting Mode		
		850 mm		
Press-in Speed		2.0 ~ 43.5 m/min		
Extraction Speed		1.5 ~ 32.3 m/min		
Control System		Radio Control		
Moveme	nt	Self-Moving		
Mass	Super Crush Mo (Main Body & Hose)	Reel)	15780 k	
	Water Jetting M (Main Body & Piler J	et Reel)	12820 k	
	Standard Mode (Main Body)		12000 k	
Hose R	eel		HR17[
Mass (Standard)		2780kg (including Hose Reel Bracket)		
Pile Au	ger		PA2	
Applicable pile length (Standard)		Max 24 m *		
Mass	Auger Motor	1850 kg		
	Casing Auger	10050 kg		
Total Ma	iss	11900 kg		
		*Max 30m in	special mo	
Piler Je	t Reel		JR2	
Applicable pile length		Standard 17.0 m (Max. 27.0 m)		
Mass		820 kg		
Power	Unit	E	U300J	
Power Source		Diesel Engine		
Rated Output	Power Mode	237kW(322 ps) / 180	00 min ⁻¹	
	Eco Mode		211kW(287 ps) / 1600 min ⁻¹	
	Super Eco Mode		188kW(256 ps) / 1400 min ⁻¹	
Fuel Tar	k Capacity	500 L		
Hydraulic Reservoir		Piler ECO Oil 490 L	Piler ECO Oil 490 L	
Moving Speed		1.4 km/h	1.4 km/h	
Mass		6500 kg (with 20m H	6500 kg (with 20m Hose)	
Reaction	on Stand (with L			
Mass		3000 kg	3000 kg	



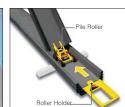
Accessories

■ Standard Accessories









* Available for Super Crush Mode only.

Piler Stage

Chuck Stage*

Auger Head Replacement Attachment*

Pile Roller







Hose Roller

Pile Laser

Casing Scraper*

Module Box



Auger Head*

■ Optional Accessories





Piler Jet Reel (JR28)

Auger Head*

5

Power Unit