

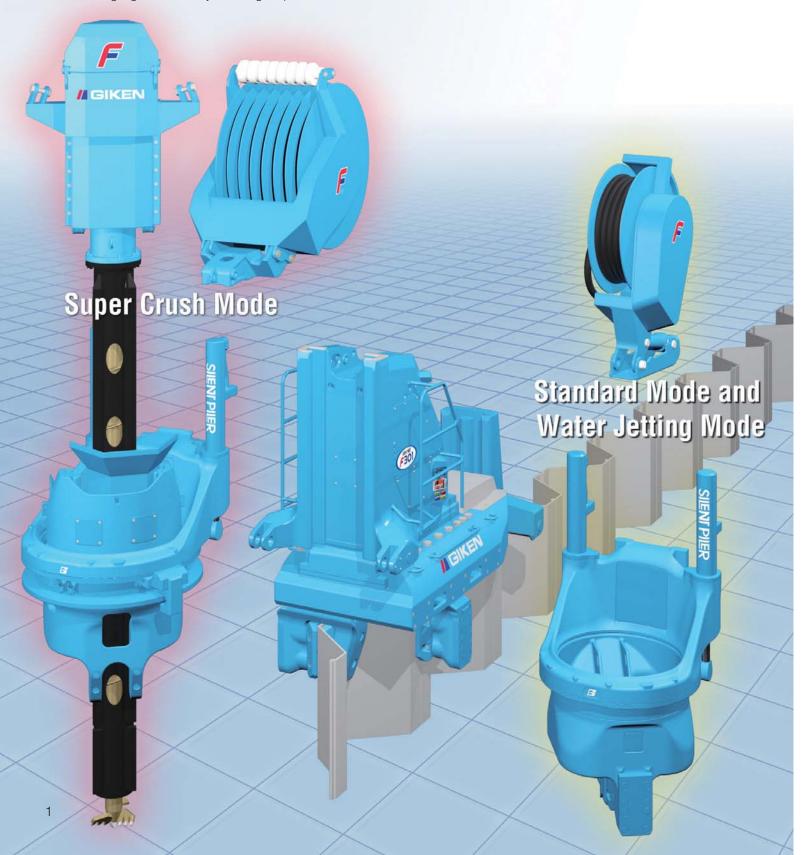
Modular model applicable to for Z & U Sheet Piles

SIENI PILER 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.

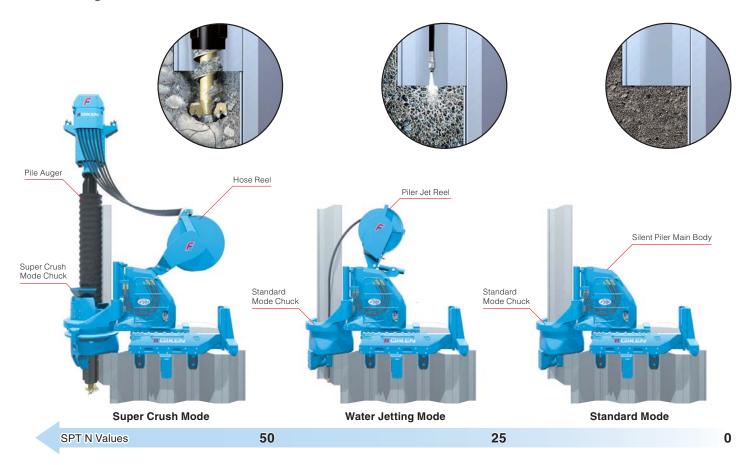
Not only are the main component parts more versatile, it is also equipped with a cutting-edge control system, and realising high functionality and longer operation life.





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

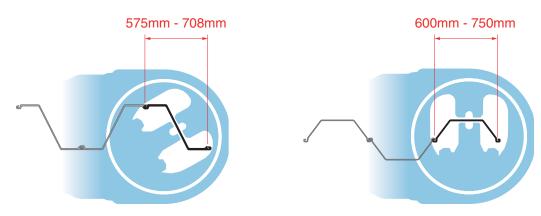
The new control system manages the position of the press-in machine and controls load generation from press-in work during operation, maximising the durability of each part.

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

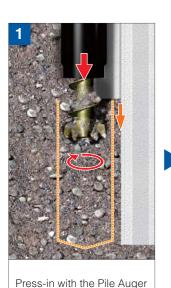
F301 has been desinged to press-in Z piles to 708mm wide and U piles up to 750mm wide.



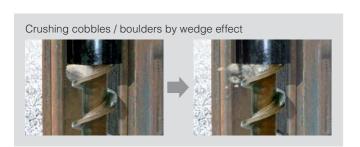


4 Pile Installation into Hard Ground

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.



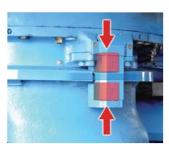




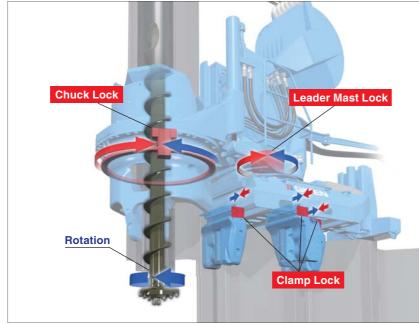
Pile Auger Auger Motor Slide Cover Auger Screw Casing Auger Head

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.



Chuck Lock



Outstanding Environmentally-Friendly Design

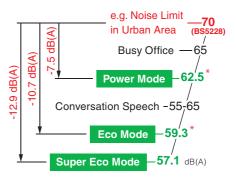
Low Emission Engine

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

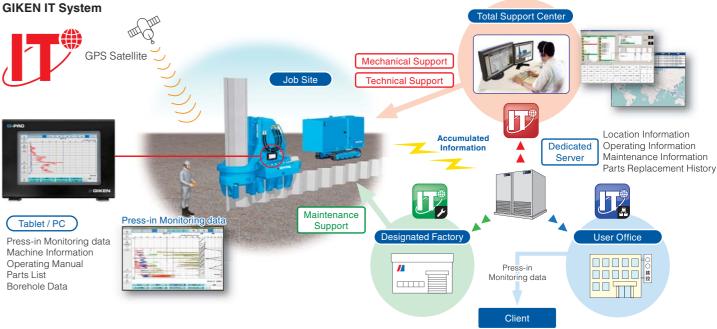
GIKEN IT System

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

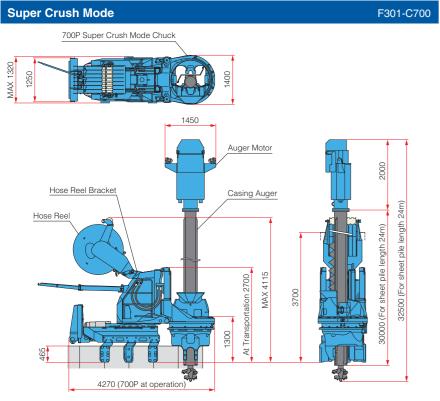
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).



3



Dimensions & Specifications



Standard / Water Jetting Mode	F301-700
700P Standard Mode Chuck Base Guard JR Hose Guard	Piler Jet Reel is an optional item
Piler Jet Reel JR28 At Extraction At Transportation Section 1992 At Extraction At Transportation 4060 (700P at operation)	

Applicable sheet piles	SILEN'	T PILER	F	
Max. Press-in Force 1000kN (Standard / Water Jethon Mode) Max. Extraction Force 900kN (Super Crush Mode) Stroke 850 mm Press-in Speed 2.0 ~ 43.5 m/min Extraction Speed 1.5 ~ 32.3 m/min Control System Radio Control Movement Self-Moving Mass (Main Body & Hose Reel) 1 Mass Water Jetting Mode (Main Body & Piler Jet Reel) 1 Mass (Standard Mode (Main Body) 1 Mass (Standard) 2780kg (including Hose Reel Bracked) Pile Auger Max 24 m * Applicable pile length (Standard) Max 24 m * Mass 11900 kg Total Mass 11900 kg Filer Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit Ethermal Power Source Diesel Engine Rated Output 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 1.4 km/h Mass	Applicable sheet piles		Z Sheet Piles (575~708P) U Sheet Piles (600~750P)	
Max. Extraction Force	Max. Press-in Force Max. Extraction Force		800kN (Super Crush Mode)	
Max. Extraction Force 850 mm Stroke 850 mm Press-in Speed 2.0 ~ 43.5 m/min Extraction Speed 1.5 ~ 32.3 m/min Control System Radio Control Movement Self-Moving Mass Super Crush Mode (Main Body & Hose Reel) 1 Water Jetting Mode (Main Body & Piler Jet Reel) 1 Standard Mode (Main Body) 1 Hose Reel 1 Mass (Standard) 2780kg (including Hose Reel Brackether) Pile Auger Max 24 m * Applicable pile length (Standard) Max 24 m * Mass 1900 kg Total Mass 11900 kg Total Mass 11900 kg Filer Jet Reel Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Rated Output 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity			1000kN (Standard / Water Jetting	
1200kN (Standard / Water Jet			900kN (Super Crush Mode)	
Press-in Speed 2.0 ~ 43.5 m/min Extraction Speed 1.5 ~ 32.3 m/min Control System Radio Control Movement Self-Moving Mass Super Crush Mode (Main Body & Hose Reel) 1 Water Jetting Mode (Main Body & Piler Jet Reel) 1 Hose Reel 1 Mass (Standard Mode (Main Body) 2780kg (including Hose Reel Bracked Including Hose Reel Bracked I			1200kN (Standard / Water Jetting	
Extraction Speed 1.5 ~ 32.3 m/min	Stroke		850 mm	
Super Crush Mode	Press-in Speed		2.0 ~ 43.5 m/min	
Super Crush Mode	Extraction Speed		1.5 ~ 32.3 m/min	
Super Crush Mode	Control	System	Radio Control	
Mass Mass	Moveme	ent	Self-Moving	
Mass Standard Mode (Main Body & Piler Jet Reel) 1	Mass			
Mass (Standard) 2780kg		(Main Body & Piler J	et Reel)	
Mass (Standard) 2780kg			120	
Max 24 m *	Hose F	Reel	HR	
Applicable pile length (Standard) Max 24 m * Mass Auger Motor Casing Auger 10050 kg Total Mass 11900 kg *Max 30m in sp *Max 27.0 m) Mass 820 kg *Power Unit EU Power Source Diesel Engine Power Mode 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Mass (S	itandard)	2780kg (including Hose Reel Bracket)	
(Standard) Max 24 m Mass Auger Motor 1850 kg Total Mass 11900 kg "Max 30m in sp Piler Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Power Mode 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Pile Au	iger	F	
Total Mass			Max 24 m *	
Casing Auger 10050 kg Total Mass 11900 kg *Max 30m in sp Piler Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Rated Output 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Mass	Auger Motor	1850 kg	
*Max 30m in sp Piler Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Power Mode 237kW(322 ps) / 1800 Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Hotel	iviass	Casing Auger	10050 kg	
Piler Jet Reel Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Power Mode 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Total Ma	ass	11900 kg	
Applicable pile length Standard 17.0 m (Max. 27.0 m) Mass 820 kg Power Unit EU Power Source Diesel Engine Rated Output Eco Mode 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)			*Max 30m in specia	
Mass 820 kg	Piler Je	et Reel	J	
Power Unit EU Power Source Diesel Engine Rated Output 237kW(322 ps) / 1800 Super Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Applicable pile length			
Power Source Diesel Engine	Mass		820 kg	
Power Mode	Power	Unit	EU30	
Rated Output Eco Mode 211kW(287 ps) / 1600 Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Power S	Source	Diesel Engine	
Output Eco Mode Super Eco Mode 211kW(287 ps) / 1600 Fuel Tank Capacity 188kW(256 ps) / 1400 Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Rated Output	Power Mode	237kW(322 ps) / 1800 m	
Super Eco Mode 188kW(256 ps) / 1400 Fuel Tank Capacity 500 L Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)		Eco Mode	211kW(287 ps) / 1600 m	
Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)		Super Eco Mode		
Hydraulic Reservoir Piler ECO Oil 490 L Moving Speed 1.4 km/h Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Fuel Tar	nk Capacity	500 L	
Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Hydraulic Reservoir		Piler ECO Oil 490 L	
Mass 6500 kg (with 20m Ho Reaction Stand (with Leveling Jack)	Moving	Speed	1.4 km/h	
Reaction Stand (with Leveling Jack)	Mass		6500 kg (with 20m Hose	
,		on Stand (with L		
מונונו ויים	Mass	(**************************************	3000 kg	

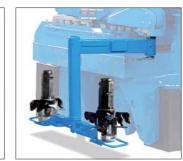
Reaction Stand At Transportation 4930

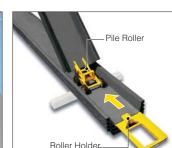
Accessories

■ Standard Accessories









* Available for Super Crush Mode only.

Chuck Stage*

Auger Head Replacement Attachment*

Pile Roller



Hose Roller

Pile Laser

Casing Scraper*

Module Box



Auger Head*

Optional Accessories



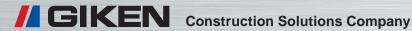


Piler Jet Reel (JR28)

Auger Head*

5

Power Unit



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Ver 1.0EN02 / 19 Jun 2015