

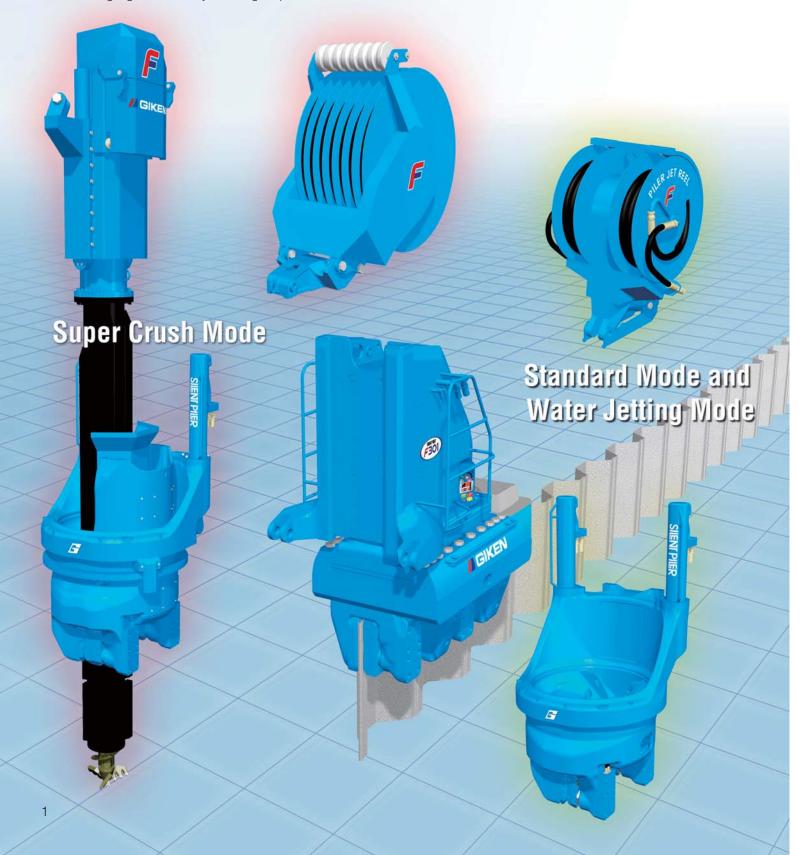
Modular model applicable to Hat Sheet Piles (900mm wide)

SIENI 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.

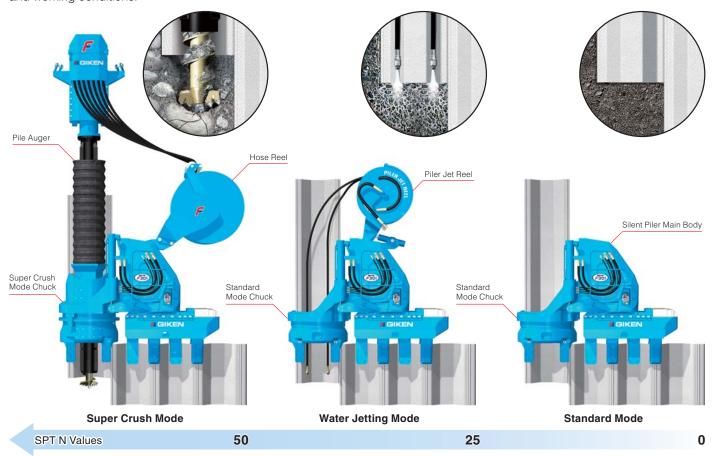
Not only are the main component parts more versatile, it is also equipped with a cutting-edge control system, and realising high functionality and longer operation life.





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 Advanced Principles for Higher Accuracy

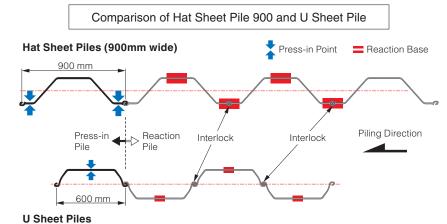
The combination of Silent Piler F301 and Hat Sheet Pile achieves high quality installation.

Two Press-in Points

Press-in force can be transferred efficiently by gripping the pile with two points.

High Stability of Reaction Base

Clamping reaction piles at Interlock positions optimises the stability of the reaction base.

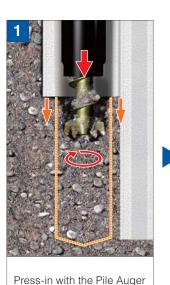


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Pile Installation into Hard Ground

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.



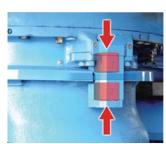




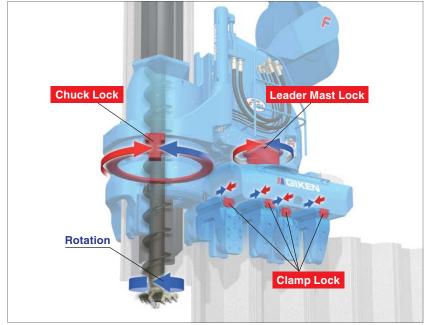
Pile Auger Auger Motor Slide Cover Auger Screw Casina

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



New Generation Power Unit EU300K4

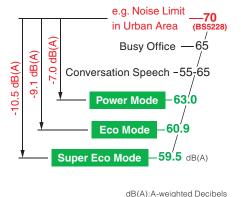
Low Emission Engine

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.



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.



Scientific Execution of Press-in Work & Advanced IT Functions

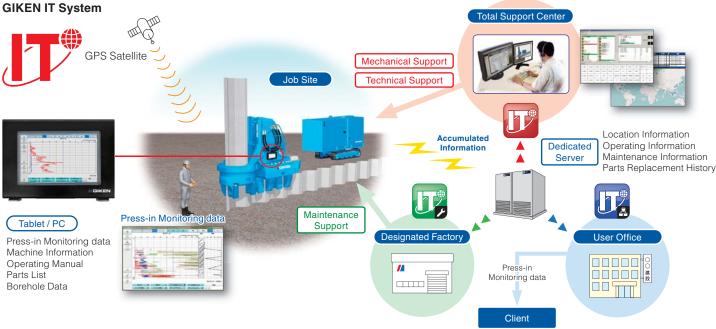
GIKEN IT System

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

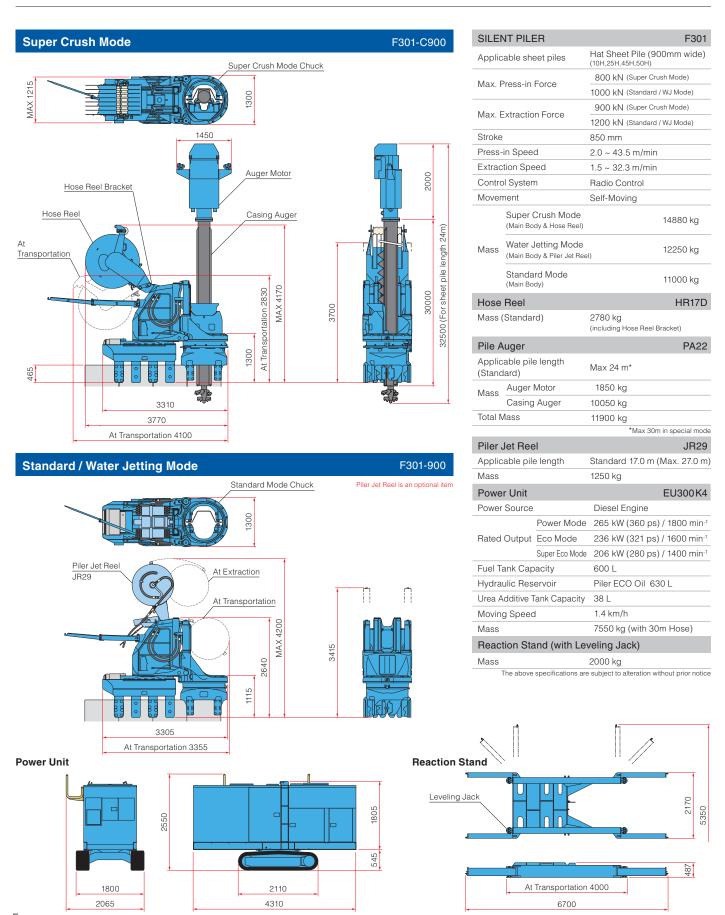
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).



3



Dimensions & Specifications

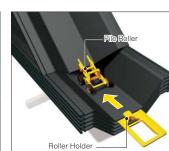


Accessories

■ Standard Accessories







* Available for Super Crush Mode only.

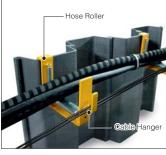
Piler Stage

Chuck Stage *

Auger Head Replacement

Attachment *

Pile Roller









Hose Roller

Pile Laser

Casing Scraper *

Module Box

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Auger Head *

■ Optional Accessories

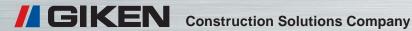




Piler Jet Reel (JR29)

Auger Head *

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