

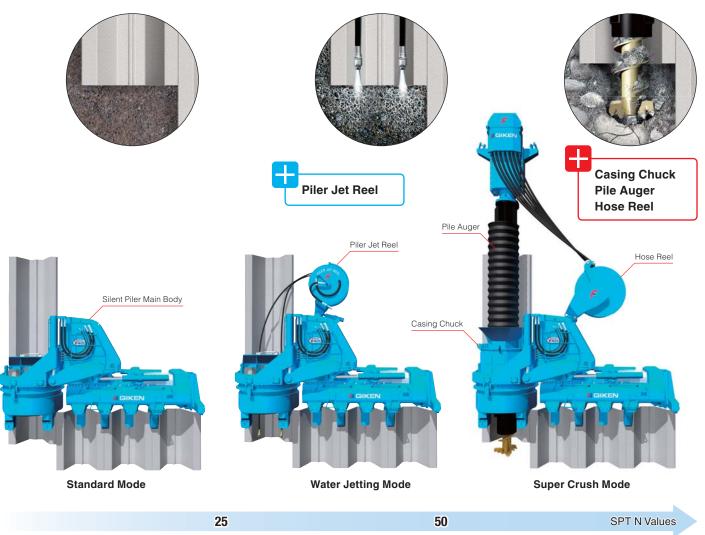
Extremely sophisticated modular model applicable to Z & U Sheet Piles

SIENIPIER F401 **Flexible and Functional Formula**

The F401 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.

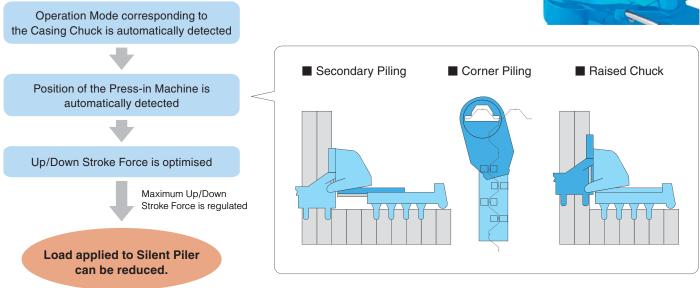
Optimising Work Efficiency with Modular Design

Silent Piler F401 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.



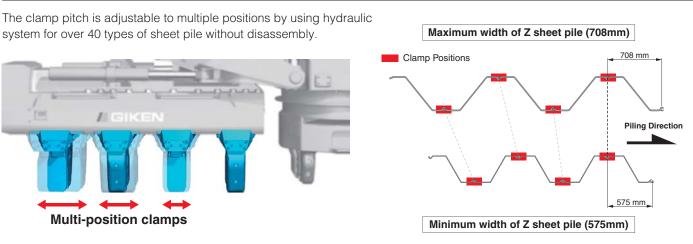
New Control System 2

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.



Multi-position clamps 3

system for over 40 types of sheet pile without disassembly.





The F401 has been designed to press-in 2 piles simultaneously up to a total width of 1416mm.



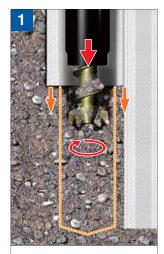


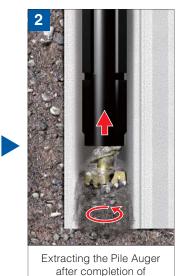


* F401 is designed to Press-in a pair of 600mm and 700mm U sheet piles in pairs by using WU chuck attachment

5 **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

Slide Cover

Auger Screw

Casing

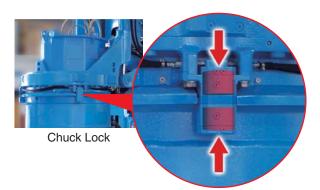
Press-in with the Pile Auger

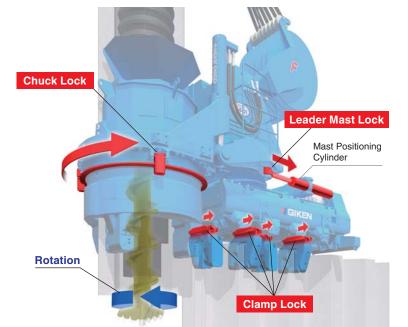
Crushing cobbles / boulders by wedge effect



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.



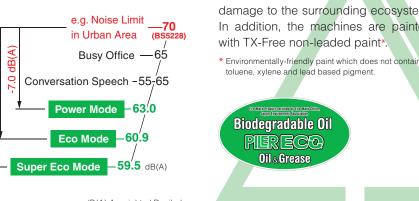


6 **New Generation Power Unit EU300K4**

Low Emission Engine

The Power Unit of the F401 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.



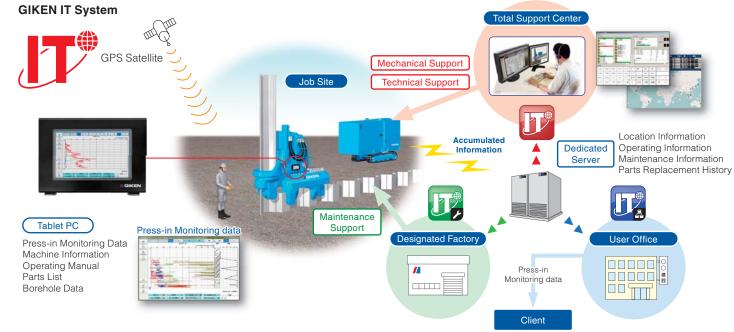


Scientific Execution of Press-in Work & Advanced IT Functions

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.



SIEN PIER

Ultra Low Noise Level

It clears allowable construction noise levels in many industrialised countries.

Standard Application of Biodegradable Oil

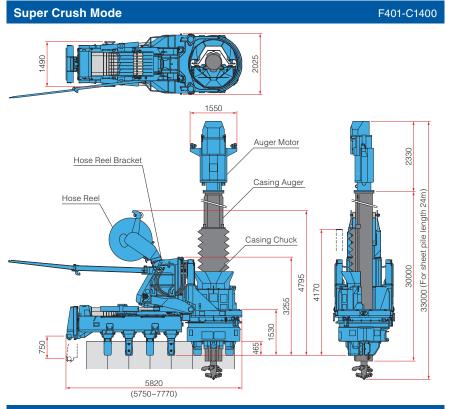
The F401 uses bio-degradable Piler Eco Oil and Piler Eco Grease. Hence, if hydraulic oil or grease is spilled into soil or water, there will be no environmental damage to the surrounding ecosystem. In addition, the machines are painted

dB(A):A-weighted Decibels

Press-in Monitoring and Data Logging System

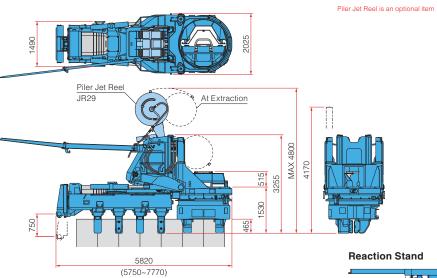
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).

Dimensions & Specifications

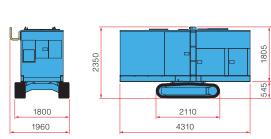


Standard / Water Jetting Mode



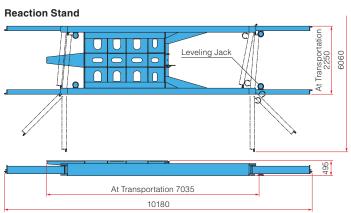


Power Unit



SILE		ER	F401
Applicable sheet piles			Z Sheet Piles 575~708 mm U Sheet Piles 600, 700 mm with WU Chuck Attachment
Max. Press-in Force			1200 kN (Super Crush Mode)
			1500 kN (Standard / WJ Mode)
Max. Extraction Force			1600 kN
Stroke			1000 mm
Press-in Speed			1.3 ~ 27.0 m/min (Standard Mod
Extraction Speed			1.0 ~ 20.2 m/min (Standard Mod
Control System			Radio Control
Movement			Self-Moving
Mass	Super Crush Mode (Main Body, Hose Reel, Ca		asing Chuck) 30670 kg
	Water Jetting Mode (Main Body, Piler Jet Reel)		26850 kg
	Standard Mode (Main Body)		25600 kg
Hose	Reel		HR17E
Mass (Standard)			2770 kg (including Hose Reel Bracket)
Pile A	uger		PA20
Applicable pile length (Standard)			Max 24 m*
Mass	Auger Motor		2540 kg
maoo	Casing Auger		18260 kg
Total Mass			20800 kg
			*Up to 30m with modificatioi
Piler Jet Reel			JR29
Applicable pile length			Standard 16.0 m (Max. 27.0 n
Mass			1250 kg
Powe	r 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)
Reaction Stand (with Leveling Jack)			
Mass			3950 kg

3950 kg The above specifications are subject to alteration without prior notice.



Accessories

Basic Accessories



Hose Roller

Pile Laser

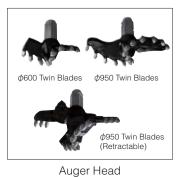




Chuck Stage

WU Chuck Attachment

Super Crush Mode Accessories





Attachment



Accessaries are different of types.

Module Box



Piler Jet Reel (JR29)



Piler Stage



Piler Stage with Chuck Stage



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