

GIKEN

SILENT PILER™

F401
- P1200

For Pipe Piles with Interlocks D31.5 ~ 47.2 in



Dedicated Press-in Piler for D31.5 ~ 47.2 in Pipe Piles with Interlocks

SILENT PILER™ F401-P1200

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Flexible and Functional Formula

Constructing efficient and effective press-in wall structures using high strength, durable tubular sheet piles.

The 'Pipe Piles with Interlocks Press-in Method' uses hydraulic pressure and static load force to press-in tubular sheet piles, constructing walls with the high cross-sectional performance needed for deep foundations, and port and harbor construction. With the ability to run atop of the installed pile wall the F401-P1200 constructs a high strength implant structural wall safely, economically and with minimal space requirements



1 Features of the Tubular Sheet Pile Press-in Method

Highly Rigid Wall Structure

A secure and rigid wall structure can be built by pressing in a continuous sequence of high-quality factory-made pipe piles with interlocks, which have high rigidity.

Environmentally Friendly Construction Method

By using a static load, the press-in method allows for non-vibratory pile installation with minimal noise impacts. In addition, the impact on the surrounding environment can be minimized because press-in piling work only requires a small footprint for its construction system.

Reduction in Construction Costs

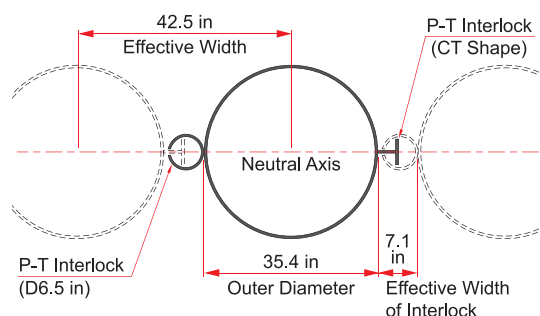
There is no need for provisional facilities, such as temporary roadways or platforms, which means a simplified process with minimal equipment, resulting in big cost savings.

High Level of Safety with No Risk of Overturning

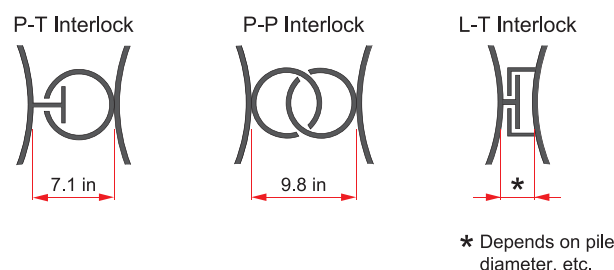
There is no risk of overturning because the press-in piling machine grips firmly onto completed piles.

Standardized Cross Section and Interlock Shape

Standard Cross-section (D35.4 in, P-T Interlock)



Interlock Shapes



2 Outstanding Environmentally-Friendly Design

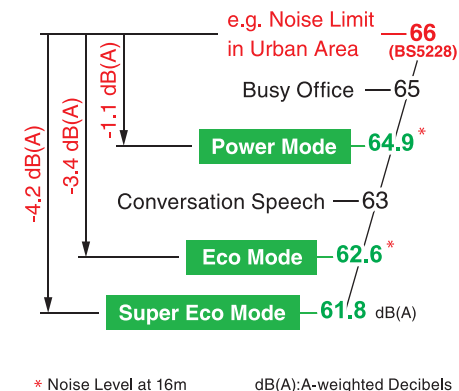
Low Emission Engine

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 original hydraulic control technologies.



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 with TX-Free non-lead paint*.

* Environmentally-friendly paint which does not contain toluene, xylene and lead based pigment.



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

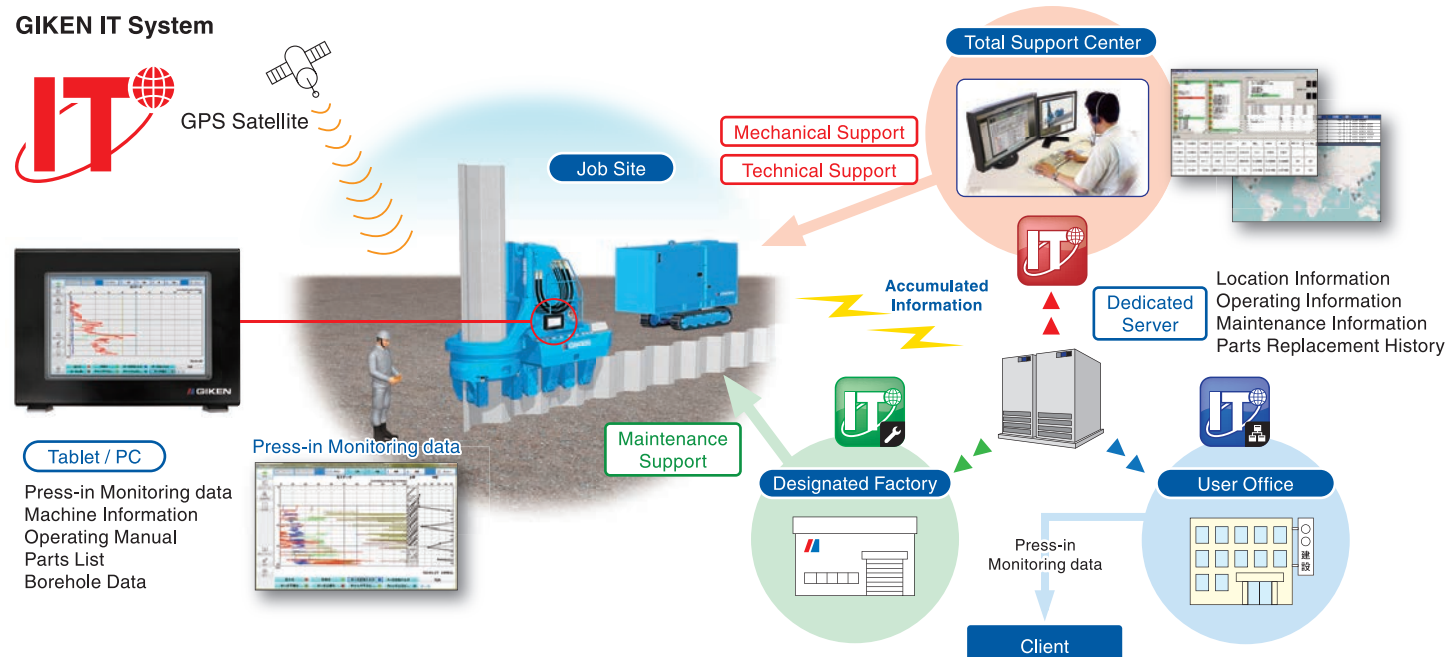
GIKEN IT System

GIKEN engineers can monitor individual SILENT PILER, 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.

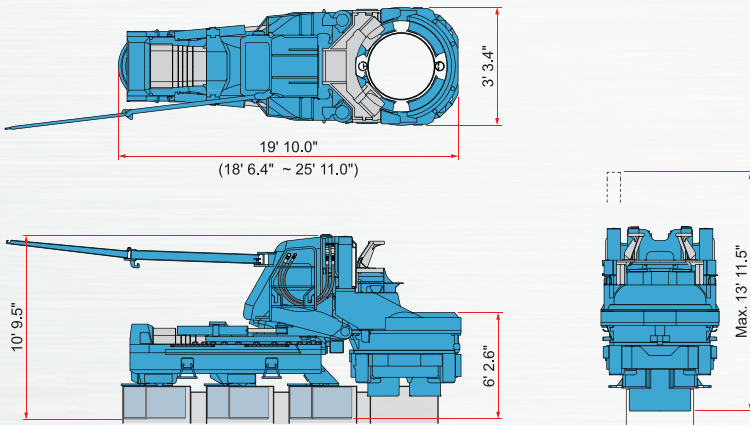
Press-in Monitoring and Data Logging System

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).



Dimensions & Specifications

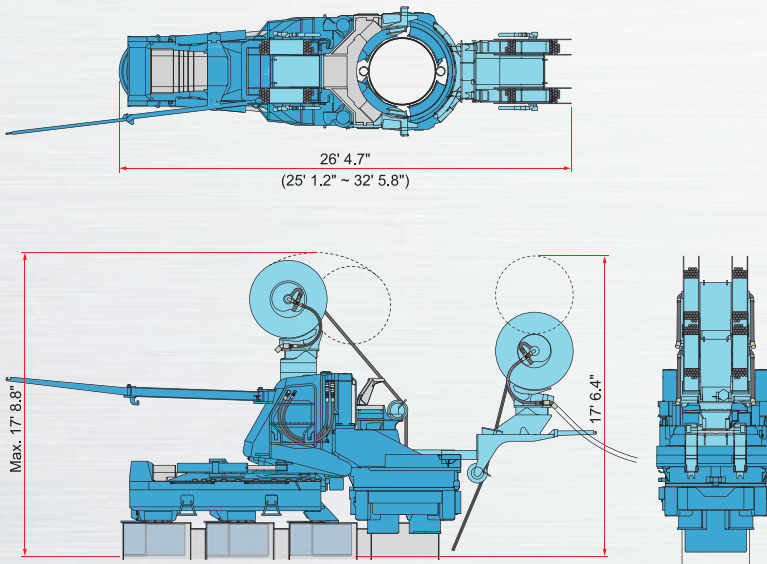
Standard Mode (with D47.2 in)



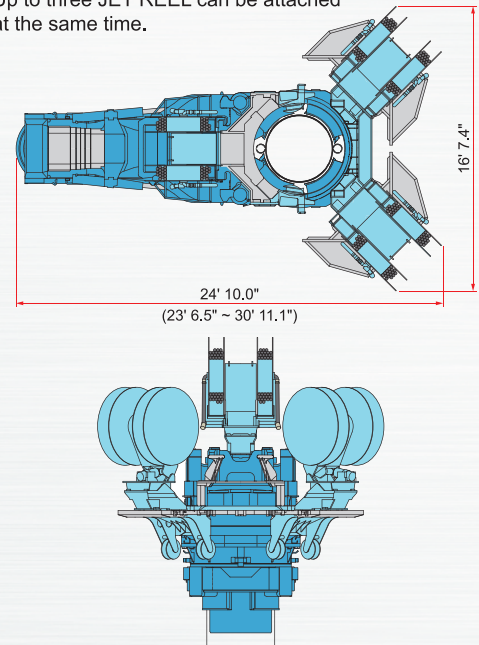
SILENT PILER	F401-P1200
Applicable Piles	Pipe Piles with Interlocks D31.5, 39.4, 47.2 in ^{*1}
Interlock shape	PP, PT, LT
Max. Press-in Force	225 tonf
Max. Extraction Force	247 tonf
Stroke	39.4 in
Press-in Speed	3.9 ~ 62.3 ft/min
Extraction Speed	3.0 ~ 45.9 ft/min
Control System	Radio Control
Movement	Self-Moving
Mass	151300 lb

*1 D31.5 and D47.2 are only applicable by optional equipment.

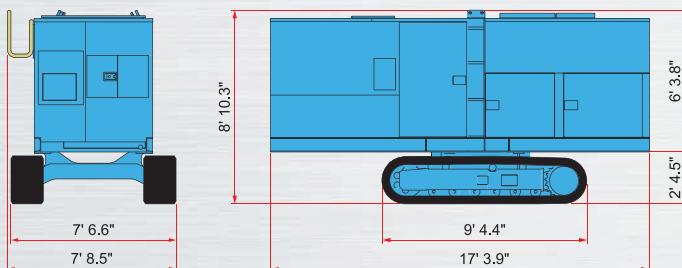
Water Jetting Mode



Up to three JET REEL can be attached at the same time.



Power Unit



Power Unit	EU500B4
Power Source	Diesel Engine
Rated Output	Power Mode 469 HP /1800 rpm
	Eco Mode 417 HP /1600 rpm
	Super Eco Mode 364 HP /1400 rpm
Fuel Tank Capacity	211 US gal
Hydraulic Reservoir	PILER ECO™ OIL 174 US gal
Moving Speed	0.9 mph
Mass	24400 lb (with 98.4ft Hose)

GIKEN

Construction Solutions Company

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