

GIKEN

SILENT PILER™

F401
- P1200

for Tubular Sheet Pile 800-1200mm



Dedicated Press-in Piler for $\phi 800$ -1200mm Tubular Sheet Piles

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 'Tubular Sheet Pile 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

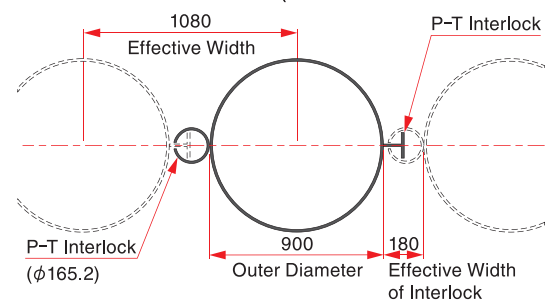
There is no need for provisional facilities, such as temporary roadways or platforms, which means a simplified process with minimal equipment, resulting in big cost savings.

High Level of Safety with No Risk of Overturning

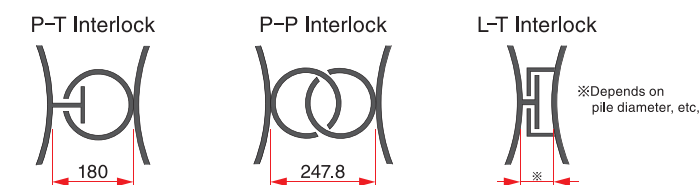
There is no risk of overturning because the press-in piling machine grips firmly onto completed piles.

Standardized Cross Section and Interlock Shape

Standardized Cross Section($\phi 900$ mm P-T Interlock)



Interlock Shape



2 Outstanding Environmentally-Friendly Design

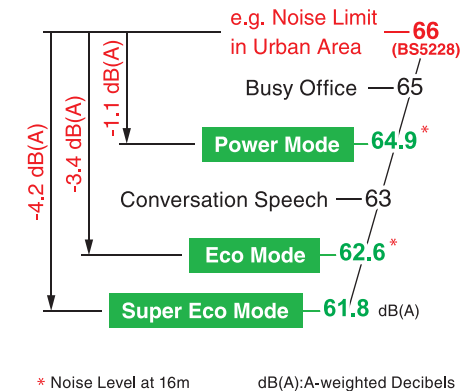
Low Emission Engine

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-leaded 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

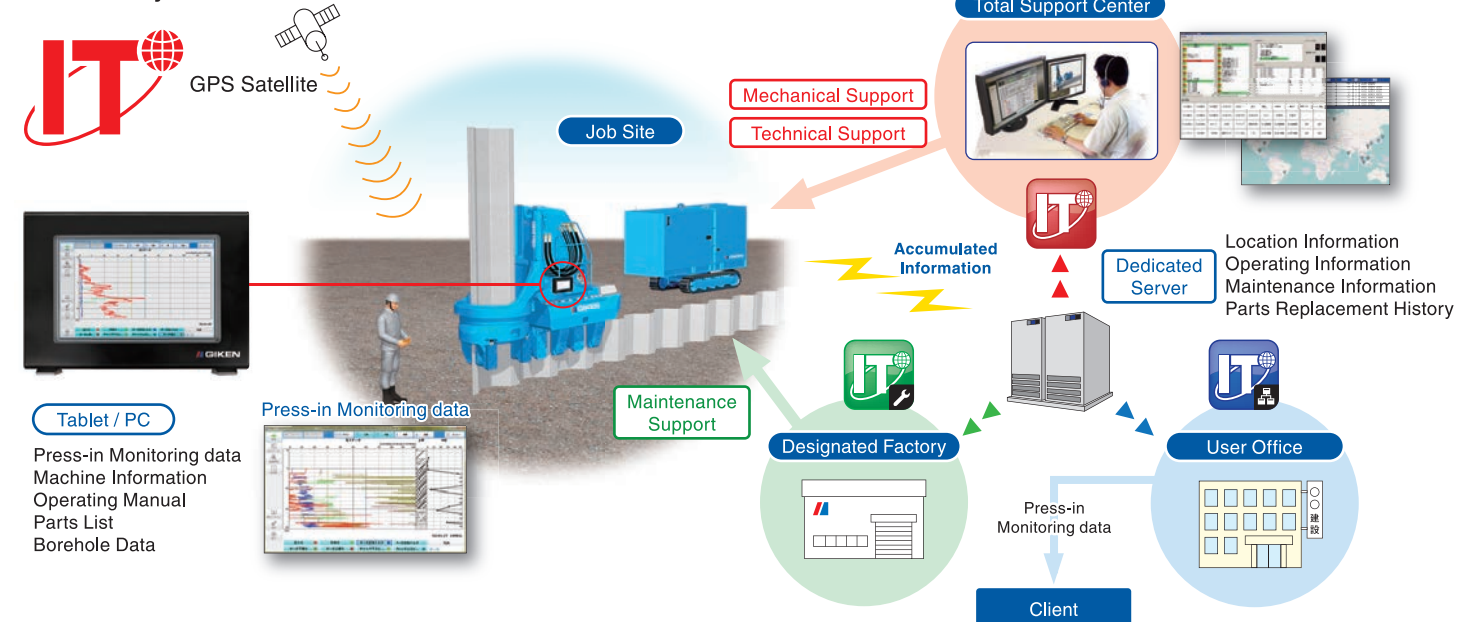
GIKEN engineers can monitor individual SILENT PILER, such as operating condition, maintenance records and location. Quick advice for any technical troubles is available promptly and appropriate information can also be provided to prevent troubles.

* The system is not available in the countries where authorisation for usage cannot be acquired.

Press-in Monitoring and Data Logging System

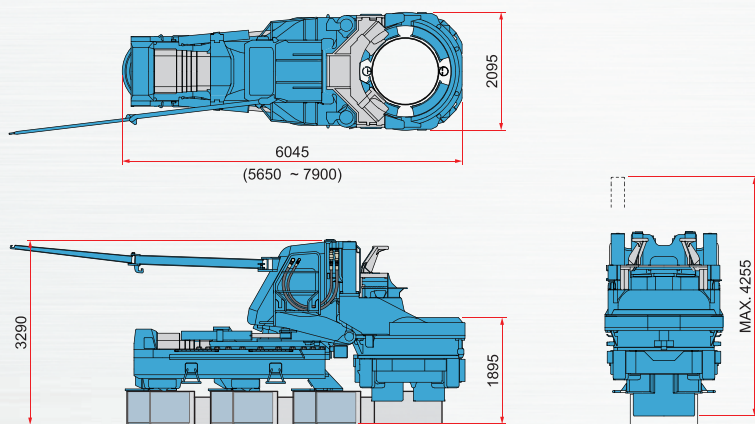
Press-in monitoring data can be used for quality control and information modelling of the foundation. Operators are able to keep working while checking data such as press-in force, auger torque, and working hours of press-in work, on a tablet or PC (both optional extras).

GIKEN IT System



Dimensions & Specifications

Standard Mode (with $\phi 1200$)



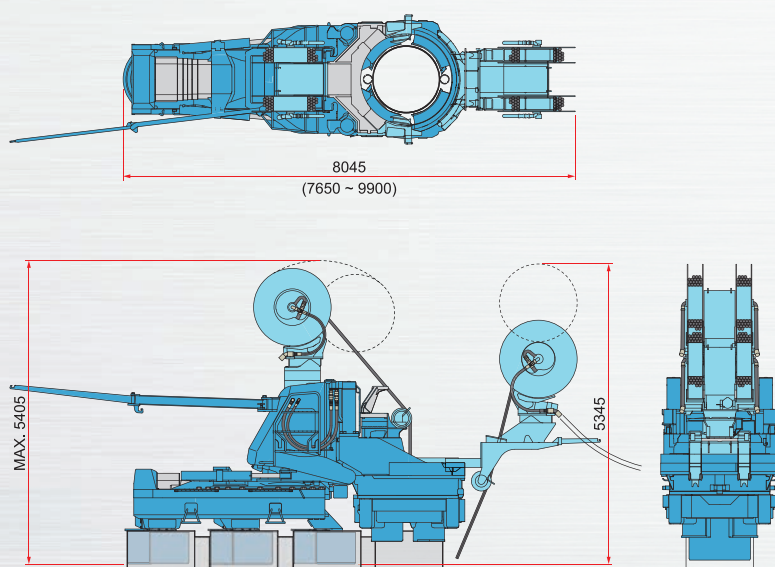
SILENT PILER

F401-P1200

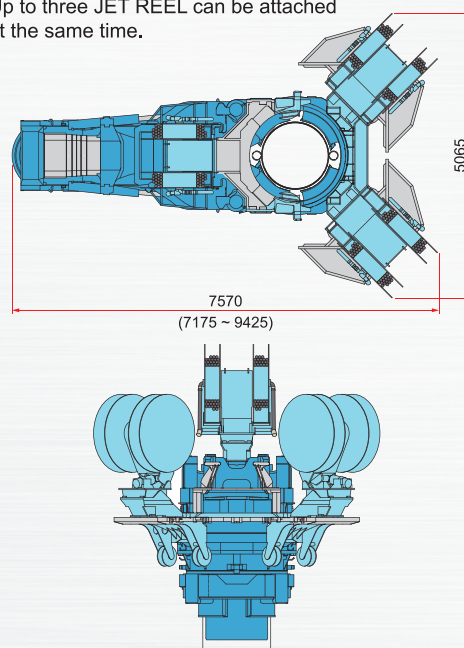
Applicable Piles	Tubular Sheet Pile $\phi 800, 1000, 1200$ *1
Interlock shape	PP, PT, LT
Max. Press-in Force	2000 kN
Max. Extraction Force	2200 kN
Stroke	1000 mm
Press-in Speed	1.2 ~ 19.0 m/min
Extraction Speed	0.9 ~ 14.0 m/min
Control System	Radio Control
Movement	Self-Moving
Mass	68600 kg

*1 $\phi 900$ and $\phi 1100$ are only applicable by optional equipment.

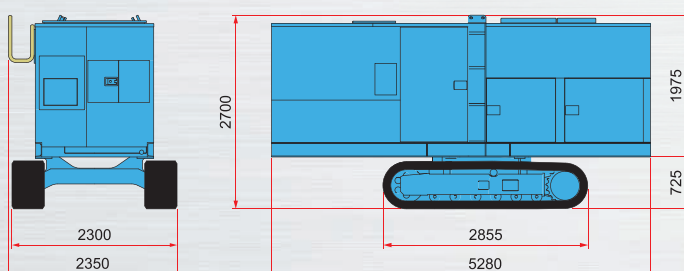
Water Jetting Mode



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



Power Unit



Power Unit

EU500B4

Power Source	Diesel Engine
Power Mode	350 kW(476 ps)/1800 min ⁻¹
Rated Output	Eco Mode 311 kW(423 ps)/1600 min ⁻¹
	Super Eco Mode 272 kW(370 ps)/1400 min ⁻¹
Fuel Tank Capacity	800 L
Hydraulic Reservoir	PILER ECO™ OIL 660 L
Moving Speed	1.4 km/h
Mass	11050 kg (with 30m Hose)



Construction Solutions Company

www.giken.com

CONTACT US



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