SILENT PILER F101
for U Sheet Piles
400mm wide
SILENT PILER F101

Flexible and Functional Formula

The F101 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. 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 improved by the Press-in Force Control System.

2. Outstanding Environmentally-Friendly Design

Low Emission Engine

The Power Unit of the F101 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.

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

Scientific Execution of Press-in Work

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

Environmental Friendly Paint

- Low Emission Engine
- Standard Application of Biodegradable Oil
- Ultra Low Noise Level
- 3-Clamp Total Mass*1 12.41t
- 4-Clamp Total Mass*1 12.91t

*1 Silent Piler Main Body, Power Unit, Reaction Stand
*2 In Metric System

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 data

- Press-in Monitoring data

Giken IT System

- GPS Satellite
- Client
- Total Support Center
- Dedicated Server
- User Office
- Press-in Monitoring data
- Giken IT System
- Maintenance Support
- Designated Factory
- Piling Monitor Data
- Operating Information
- Parts Replacement History
- Location Information
- Operator Support
- Mechanical Support
- Technical Support
Dimensions & Specifications

3-Clamp

4-Clamp

Power Unit

Reaction Stand

SILENT PILER

F101

Applicable sheet piles: U Sheet Pile 400mm wide SP EI, II, IV

Max. Press-in Force: 800 kN

Max. Extraction Force: 900 kN

Stroke: 800 mm

Press-in Speed: 2.5 ~ 35.7 m/min

Extraction Speed: 1.9 ~ 26.9 m/min

Control System: Radio Control

Mass

| Water Jetting Mode (Main Body & Piler Jet Reel) | 3-Clamp | 6220 kg |
| Standard Mode (Main Body) | 3-Clamp | 5400 kg |
| | 4-Clamp | 5800 kg |

Piler Jet Reel

Applicable pile length: Standard 17.0 m (Max. 27.0 m)

Mass: 820 kg

Piler Jet Reel is an optional item

Power Unit

EU20013

Power Source: Diesel Engine

Rated Output

| Power Mode | 195 kW (265 ps) /1800 min⁻¹ |
| Eco Mode | 173 kW (235 ps) /1600 min⁻¹ |
| Super Eco Mode | 152 kW (207 ps) /1400 min⁻¹ |

Fuel Tank Capacity: 400 L

Hydraulic Reservoir: Piler ECO Oil 490 L

Moving Speed: 1.4 km/h

Mass: 5750 kg (with 20m Hose)

Reaction Stand (with Leveling Jack)

Mass

| 3-Clamp | 1200 kg |
| 4-Clamp | 1300 kg |

The above specifications are subject to alteration without prior notice.