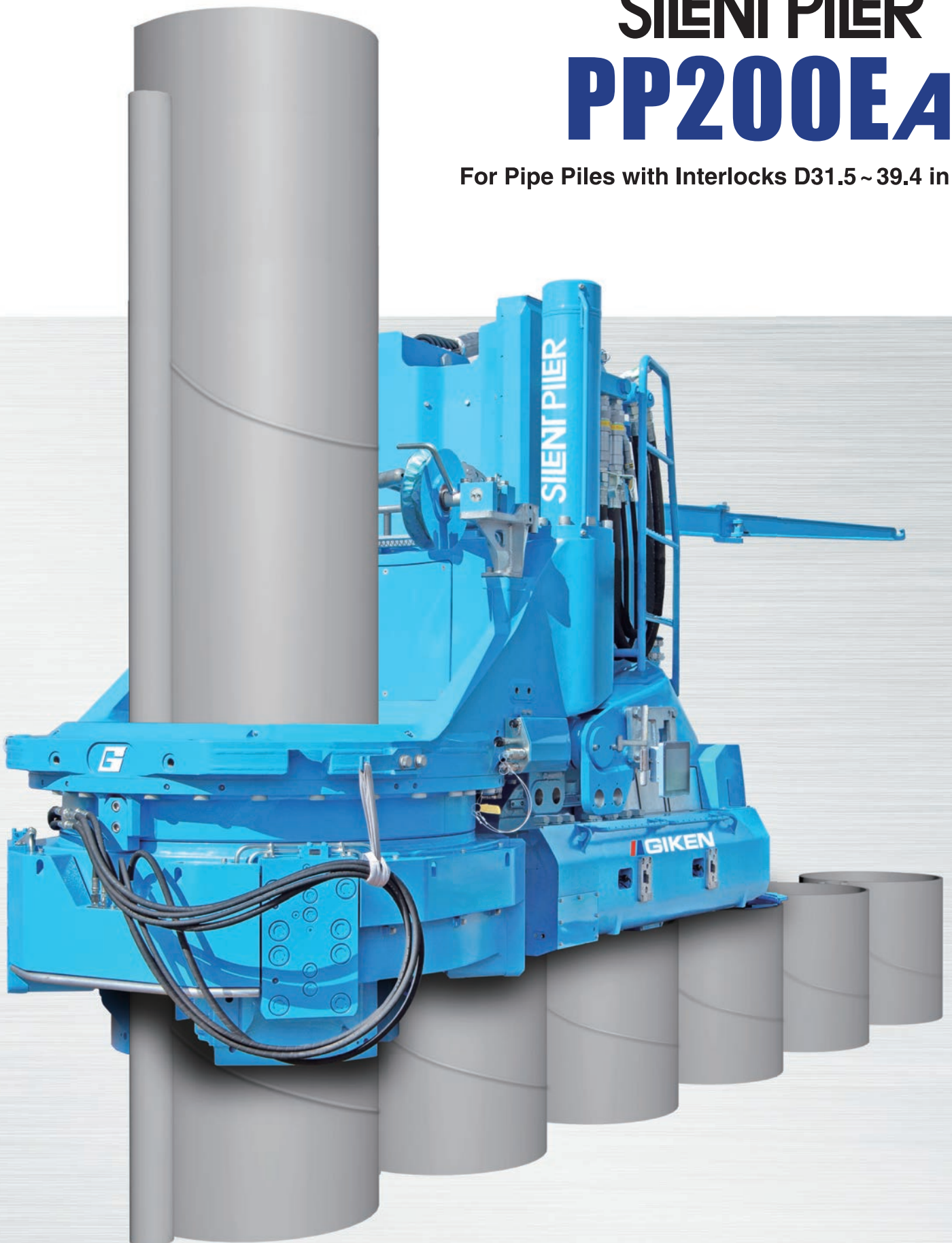


GIKEN

SILENT PIER™ PP200EA

For Pipe Piles with Interlocks D31.5 ~ 39.4 in



Press-in piling machine dedicated for pipe piles with interlocks and are compatible with diameters from 31.5 - 39.4 in

SILENT PILER™ PP200EA

SILENT PILER™ PP200EA

Efficient Construction of Robust Continuous Pile Walls Using High-Strength and Durable Pipe Piles with Interlocks

Pipe piles with interlocks are high-strength piles which are suited for port construction work, flood and tidal surge protection in river basins, anti-seismic reinforcement of bridge piers, bridge foundations (pipe pile wall foundation), and so on. They can be adapted to different design criteria by altering the pile diameter and thickness, thus enabling efficient construction of various structures for different purposes. The SILENT PILER PP200EA, which is compatible with pipe piles that have interlocks with outside diameters from 31.5 - 39.4 inches, makes for a safe and ecofriendly construction project with minimal noise, imperceptible vibration, and slim-to-no risk of overturning.

Features of Interlocked Pipe Pile Installation with the Press-in Piling 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

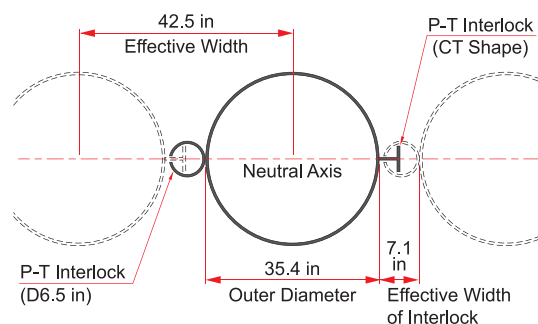
There is no need for provisional facilities, such as temporary roadways or platforms, which means a simplified process with minimal equipment, resulting in big cost savings.

High Level of Safety with No Risk of Overturning

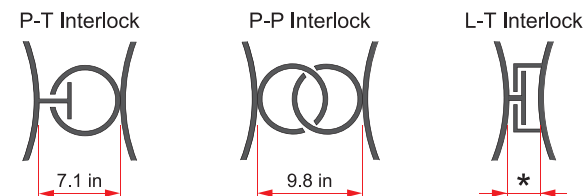
There is no risk of overturning because the press-in piling machine grips firmly onto completed piles.

Standard Cross-Sections and Interlock Shapes of Pipe Piles with Interlocks

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



Interlock Shapes

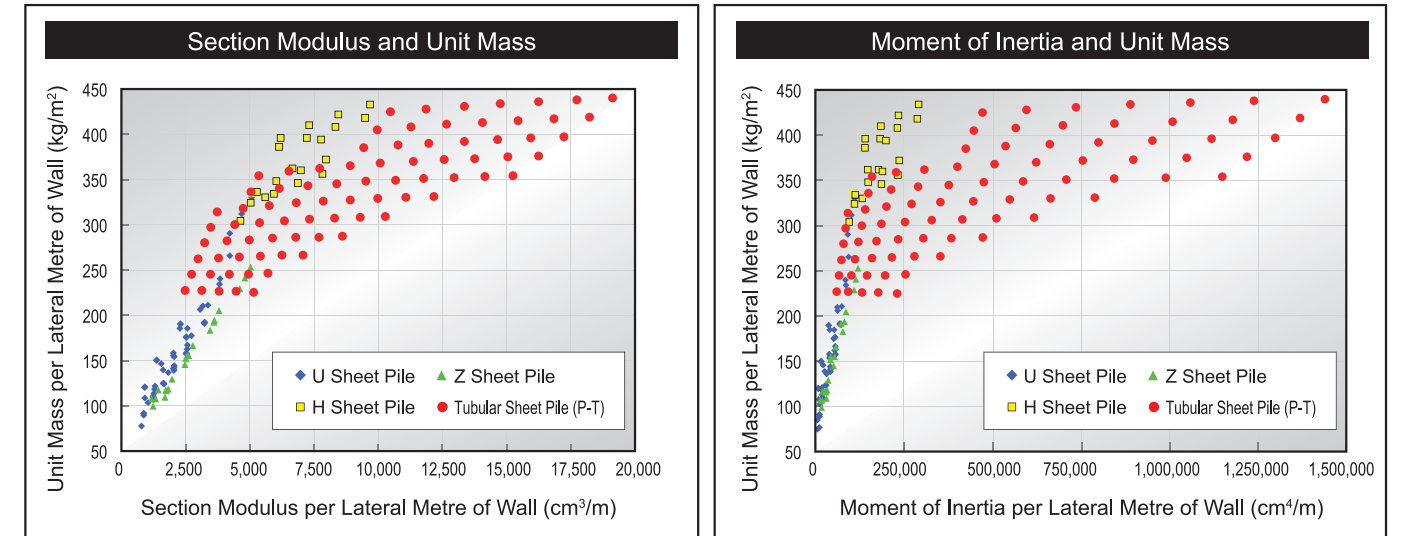


* Depends on pile diameter, etc.

Cross-Sectional Performance Compared with Other Pile Types

The table below shows typical models of the four main types of piles, sorted by section performance and pile weight.

Pipe piles with interlocks clearly have a much higher cross-sectional performance than U and Z sheet piles. Additionally, pipe piles with interlocks have practically no increase in pile weight when it is compared with H piles, which give similar high cross-sectional performance and therefore, is preferable in economic terms.



Comparison with Conventional Construction Methods

Construction Method with the PP200EA

Can be carried out without any negative effects on a downstream segment of a waterway or neighbouring areas



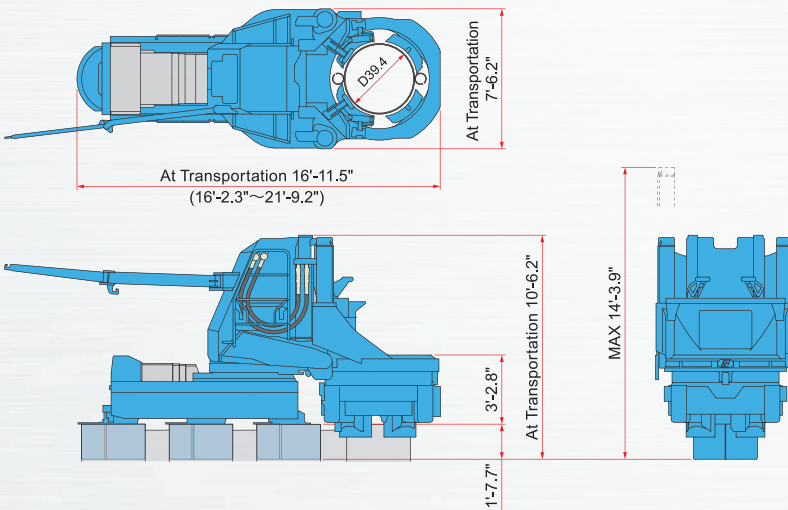
Conventional Excavation Method

A blockage of water flow and water traffic can occur, resulting in a negative effect on surroundings with an oppressive landscape.

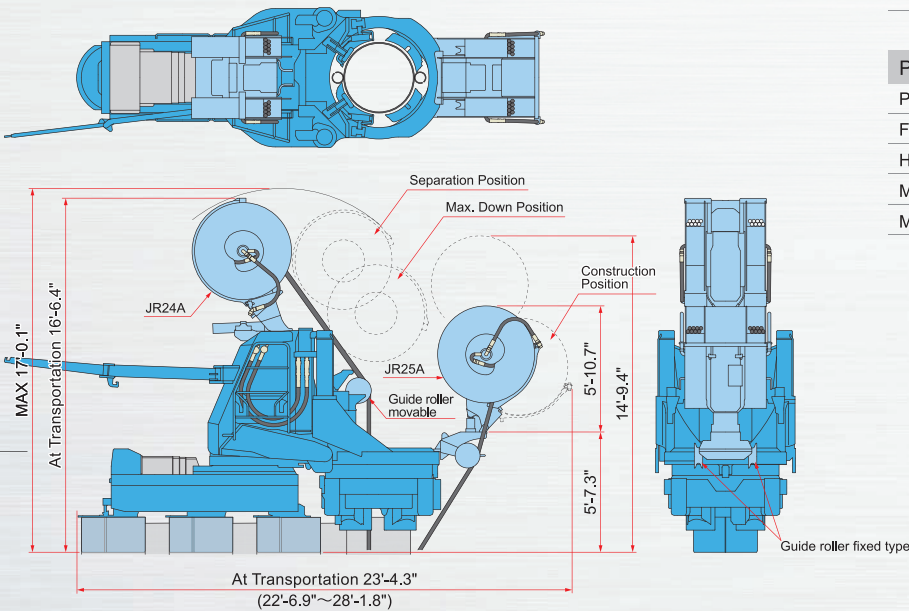


Dimensions & Specifications

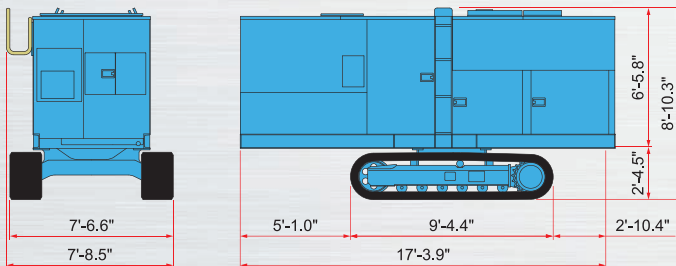
Standard Mode (with D39.4 in)



Water Jetting Mode



Power Unit



SILENT PILER PP200EA

Applicable Piles	Pipe Piles with Interlocks D31.5 ~ 39.4 in	
Interlock Shape	PP, PT, LT	
Max. Press-in Force	225 tonf	
Max. Extraction Force	236 tonf	
Stroke	39.4 in	
Press-in Speed	4.9 ~ 78.1 ft/min	
Extraction Speed	3.6 ~ 56.1 ft/min	
Control System	Radio Control	
Movement	Self-Moving	
Mass	For D31.5 in pile	50300 lb
	For D35.4 in pile	51500 lb
	For D39.4 in pile	51800 lb

PILER JET REEL™ JR24A, JR25A

Applicable pile length	Standard 72.2 ft (Max. 170.6 ft)	
Mass	JR24A	4040 lb
	JR25A	4020 lb
	Guide Roller	110 lb × 2

*PILER JET REEL is an option.

Power Unit EU500D4

Power Source	Diesel Engine 469 HP (Tier IV Final)
Fuel Tank Capacity	211 US gal
Hydraulic Reservoir	PILER ECO OIL 174 US gal
Moving Speed	0.9 ft/min
Mass	23500 lbs (with 98.4 ft Hose)

The above specifications are subject to alteration without prior notice



Construction Solutions Company

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