

SILENT PILER



# SUPERWIDE 100 150

The Silent Piler for Wide-Width Sheet Piles  
**SUPER WIDE**



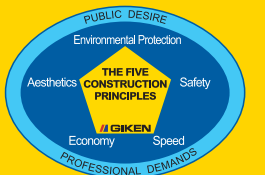
Construction Solutions



# The Pioneer Model of Silent Piler for "The Wide-Era"

# The Silent Piler for Wide-Width Sheet Piles

# SUPERWIDE 100 150



The Five Construction Principles are observed.



◀ SUPER WIDE 100

## Easy Handling & Compact Design

New designs in machine architecture and materials make the new Silent Piler lightweight and compact. Consequently the Silent Piler Super Wide can install sheet piles at various restricted areas such as under bridge and narrow working areas without causing negative influences to surrounding environment.



◀ Power Unit EU200

## High Performance by High Power & High Speed

The ultra-low noise multi-function power unit is adopted. The powerful 200 horsepower engine makes press-in & extraction faster. Consequently it enables to greatly reduce project duration and to greatly improve piling performance.



◀ Overseas construction site (London)

## Well-Established On-Site Experience

GIKEN was aware of superiorities of wide-width sheet piles through own international operations, and has spent a lot of effort to develop a dedicated model of Silent Piler. Consequently, GIKEN has succeeded in many difficult wide-width sheet piling works. The Silent Piler Super Wide is the machine that compiles GIKEN's accumulated know-how in abroad.



◀ The GRB System (Rail Safe Method).

## Original Systemised Piling Method

The GIKEN's original GRB System can systemise all machineries for sheet piling works. It enables to save working space and to improve work efficiency. Comparing with conventional piling methods, higher added-value sheet pile structures are available in shorter work duration.

## High Added-Value Auxiliary Equipment

The Auxiliary Equipment with high added-value, such as Super Jet Reel and Piler Stage, makes range of press-in works wider with higher quality.

### ● Clamp Crane



### ● Pile Runner



### ● Unit Runner



### ● Super Jet Reel



### ● Golden Tool Box



### ● Piler Stage



### ● Pile Laser

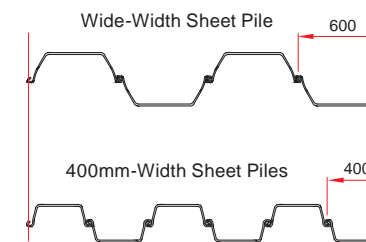


### ● H Pile Chuck Attachment

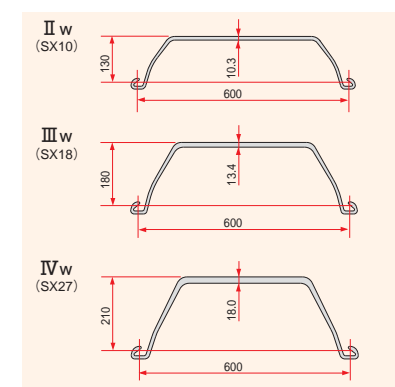


## What is Wide-Width Sheet Pile?

- New sheet pile section with 600mm-width.
- Comparing with 400mm-width sheet pile, number of sheet piles are reduced to two thirds. Sheet piling duration and construction cost can be reduced.
- The sheet pile material cost can be reduced, because the section modulus per mass is higher than 400mm-width sheet pile.
- It is possible to interlock with 400mm-width Japanese sheet piles.



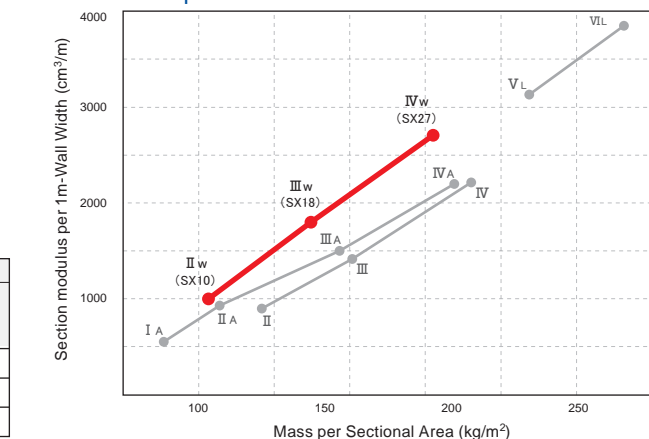
### Sections



### Specifications

Type	Per Sheet Pile				Per 1m-width of Sheet Pile Wall			
	Sectional area cm <sup>2</sup>	Moment of Inertia cm <sup>4</sup>	Section Modulus cm <sup>3</sup>	Mass kg/m	Sectional area cm <sup>2</sup> /m	Moment of Inertia cm <sup>4</sup> /m	Section Modulus cm <sup>3</sup> /m	Mass kg/m <sup>2</sup>
II w (SX10)	78.70	2,110	203	61.8	131.2	13,000	1,000	103
III w (SX18)	103.9	5,220	376	81.6	173.2	32,400	1,800	136
IV w (SX27)	135.3	8,630	539	106	225.5	56,700	2,700	177

### Sheet Pile Properties



Applicable to other Sheet Pile Sections . . . . SUPER WIDE can install 500mm width sheet piles by changing the clamp positions.

## Specifications of SUPER WIDE

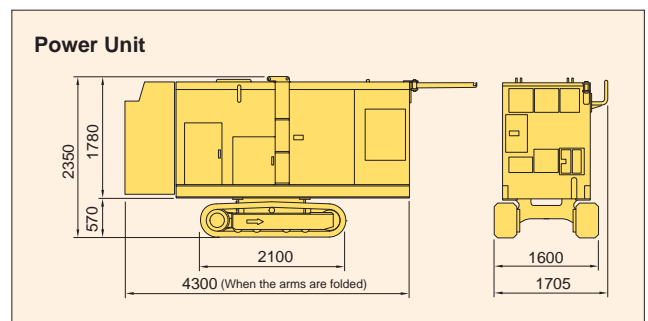
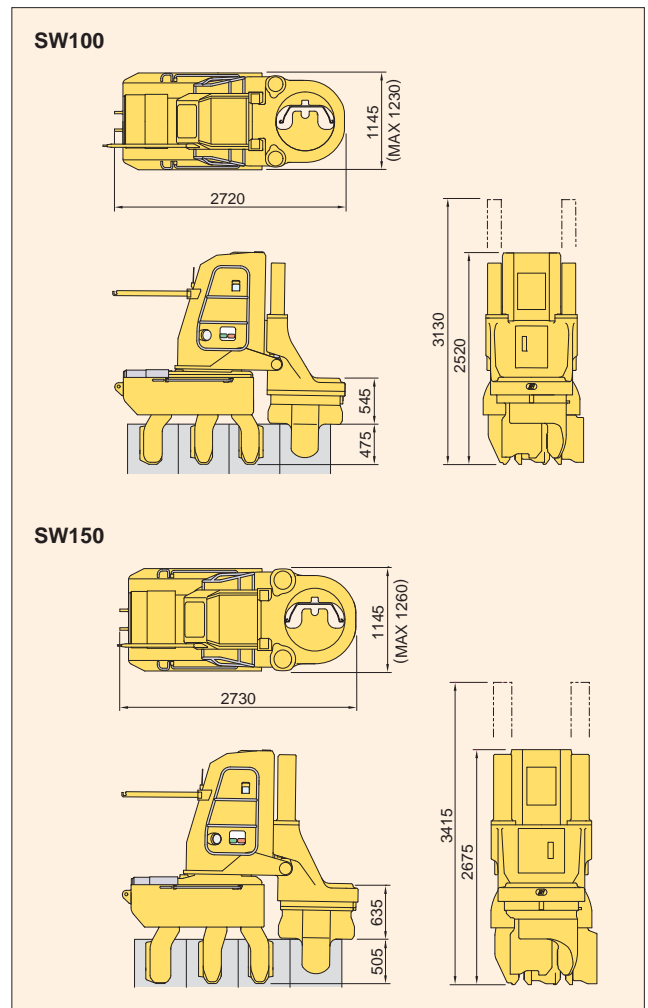
	SW100	SW150	
<b>Silent Piler</b>	Max. Press-in Force	1000 kN (102 ton)	1500 kN (153 ton)
	Max. Extraction Force	1100 kN (112 ton)	1600 kN (163 ton)
	Stroke	750 mm	800 mm
	Press-in Speed	(2000 min <sup>-1</sup> ) 1.5~35.2 m/min	(2000 min <sup>-1</sup> ) 1.0~23.2 m/min
	Extraction Speed	(2000 min <sup>-1</sup> ) 3.2~27.5 m/min	(2000 min <sup>-1</sup> ) 2.4~18.2 m/min
	Applicable sheet piles	Wide-Width Sheet Pile Type II <sub>w</sub> -IV <sub>w</sub> (SX10,SX18,SX27) Type V <sub>L</sub> , V <sub>L</sub>	
	Control System	Radio Control (※optional)	
	Movement	Self-Moving	
	Length	2,720 mm	2,730 mm
	Width	1,145 mm	1,145 mm
Height	2,520 mm	2,675 mm	
Mass	8,200 kg	9,800 kg	
<b>Power Unit</b>	Power Source	Diesel Engine (with turbo)	
	Rated Output	169 kW (230 PS) /1800min <sup>-1</sup>	
	Fuel Tank Capacity	375 L	
	Hydraulic Oil Tank Capacity	550 L	
	Length	4,300 mm (**)	
	Width	1,705 mm (**)	
	Height	2,350 mm (**)	
	Mass (*)	4,500 kg	
Total Mass (*)	6,100 kg (**)		
<b>Crawler</b>	Control System	Cable Control	
	Mobile Source	2 Hydraulic pumps x 2 Hydraulic motors (Diverged from the hydraulic power source in the Power Unit)	
	Mobile Speed	1.4 km/h	
	Mass	1,000 kg	
<b>Reaction Stand</b>	Type	Arm type	
	Length	3,380 mm (When the arms are opened 6,210 mm)	
	Width	2,120 mm (When the arms are opened 5,060 mm)	
	Height	520 mm	
	Mass	2,000 kg	

\* Including 20m long hydraulic hoses, full fuel & rating volume of hydraulic oil.

\*\* With Multi-Box & the Crawler.

### ■ Multi-Box

- The necessary tools for sheet piling works are stored compactly.
- A direct current welding machine: output electric current 50A-190A (Duty Cycle 40%). φ 4 mm welding rod can be used.
- Gas cutting gear
- Standard maintenance tools
- Mass: 600kg (No gas cylinder)



\* The above specifications are subject to alteration without prior notice.