

KOWAN STILL WORKER

Noise and Vibration Free Hydraulic Pile Pressing Machines European Agents



ZU-100



WP-100AC



WP-150



WP-150P



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Features and Benefits of the Still Worker

- Virtually noise and vibration free means installation of steel piles as close as 500mm to existing structures or services
- The Still Worker operates at ground level with no piling gates making it a very safe method of operation
- Uses a wireless radio control providing a broad range of vision for the operator and a safe working environment
- Still Worker is light and compact requiring only a small crane for pile pitching
- Ideal for height restricted sites

Exclusive Mast Tilting Device is standard with each machine

Features and benefits of the Mast Tilt device

- Mast/chuck can incline forwards and backwards by 5 degrees
 - More accurate and efficient pile installation
 - Makes self travelling much easier and quicker
 - Makes working on gradients much easier

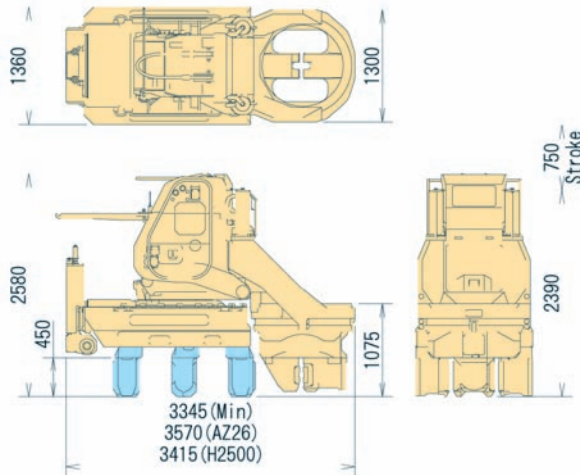


ZU-100

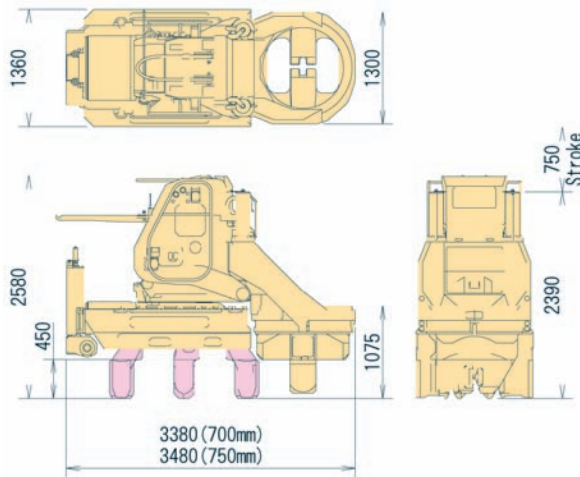
Still Worker ZU-100 can Press-in both Z Piles and U Piles simply by exchanging the clamps.
Z pile range: 575mm to 700mm.
U pile range: 700mm to 750mm.



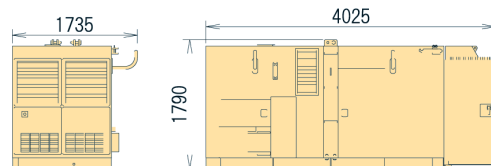
■ STILL WORKER ZU-100 (Z Profile)



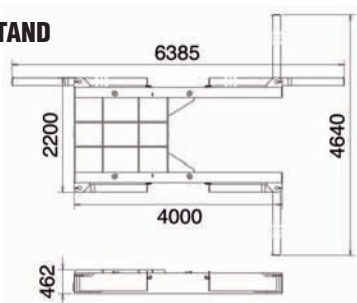
■ STILL WORKER ZU-100 (U Profile)



■ HYDRAULIC POWER UNIT (TE-200)



■ REACTION STAND



Specification

STILL WORKER	ZU-100
MAX. Pressing-in Force	1,000kN
MAX. Drawing-out Force	1,100kN
Stroke	750mm
Pressing-in Speed	3.0-36.0 m/min
Drawing-out Speed	2.4-28.0 m/min
Tilting Device	± 5 degrees
Mast Rotation	180 degrees
Applicable sheet piles	Z Profile AZ12 to 50, AZ17-700 to 40-700, H1105 to H3806 U Profile L703 to 755, AU14 to 26
Operation System	Wireless radio-control and Cable remote-control
Moving System	Self-moving
Greases	Biodegradable Greases
Weight	12,000kg

HYDRAULIC POWER UNIT	TE-200
Power	Diesel Engine 4-cycle, Water-Cooled Direct Injection Turbo
Output Rating	147.1kw/1,800min ⁻¹
Pump	Variable-Capacity Pump
Pressure Rating	40MPa max.
Fuel Oil tank	350 Litres
Hydraulic Oil tank	550 Litres
Weight	5300kg

Reaction Stand	ZU-100
Dimension	Length 4,000mm Width 2,200mm Height 462mm
Weight	2,400kg

• Specifications are subject to alteration without prior notice

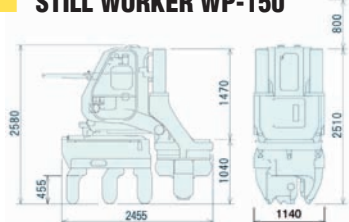
WP-100 and WP-150

WP-100 and WP-150 can press 400mm, 500mm and 600mm wide U Piles

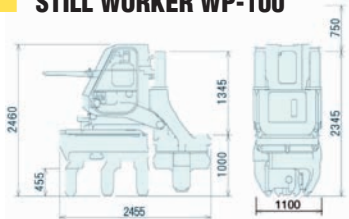


Specification

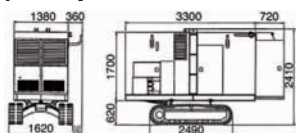
STILL WORKER WP-150



STILL WORKER WP-100



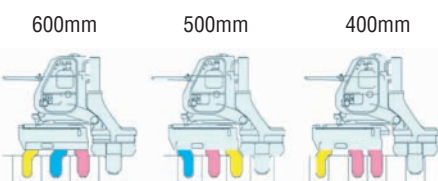
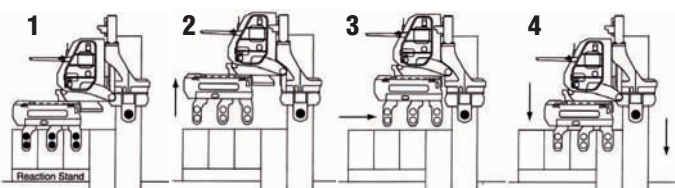
Hydraulic Power Unit TE-200 (with optional mobile crawler)



STILL WORKER	WP-150	WP-100
MAX. Pressing-in Force	1,500kN	1,000kN
MAX. Drawing-out Force	1,600kN	1,100kN
Stroke	800mm	750mm
Pressing-in Speed	1.8-23.0 m/min	3.0-36.0 m/min
Drawing-out Speed	1.9-18.0 m/min	2.4-28.0 m/min
Tilting Device	± 5 degrees	± 5 degrees
Mast Rotation	180 degrees	180 degrees
Applicable sheet piles	U Profile 400mm, 500mm, 600mm	U Profile 400mm, 500mm, 600mm
Operation System	Wireless radio-control and Cable remote-control	Wireless radio-control and Cable remote-control
Moving System	Self-moving	Self-moving
Weight	9,500kg	7,400kg

Still Worker Self Travel Operation

1. Still Worker is set on the reaction stand for the installation of the first two or three sheet piles.
2. Still Worker moves by elevating its travel carriage while supporting itself on the last installed pile.
3. Travel carriage then slides forward.
4. Travel carriage lowers itself and drops onto the installed sheet piles and continues its hydraulic installation process. After the third (or fourth) pile is driven, Still Worker moves off the reaction stand to travel independently on the piles.



In case of 400mm-pitch, normally 2 clamps are used. The drawing, however, shows the use of an optional No.3 Clamp when enough reaction force cannot be obtained.

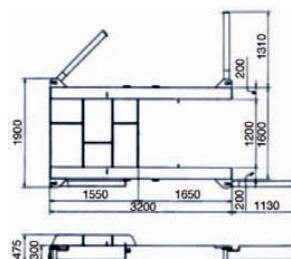
HYDRAULIC POWER UNIT TE-200

Power	Diesel Engine 4-cycle, Water-Cooled Direct Injection Turbo
Output Rating	147.1kw/1,800min ⁻¹
Pump	Variable-Capacity Pump
Pressure Rating	40MPa max.
Fuel Oil tank	350 Litres
Hydraulic Oil tank	550 Litres
Weight	5300kg

Reaction Stand WP-150 WP-100

Dimension	Length 3,200mm Width 1,900mm Height 475mm	Length 3,200mm Width 1,900mm Height 475mm
Weight	1,700kg	1,400kg

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Reaction Stand (Standard Accessory)
The Reaction Stand is used for the first 2-3 sheet piles to be driven.



Membrane Push-Type Wireless Radio Controller & Cabled Remote Controller (Standard Accessory)
Light weight and compact
Water and dust resistant

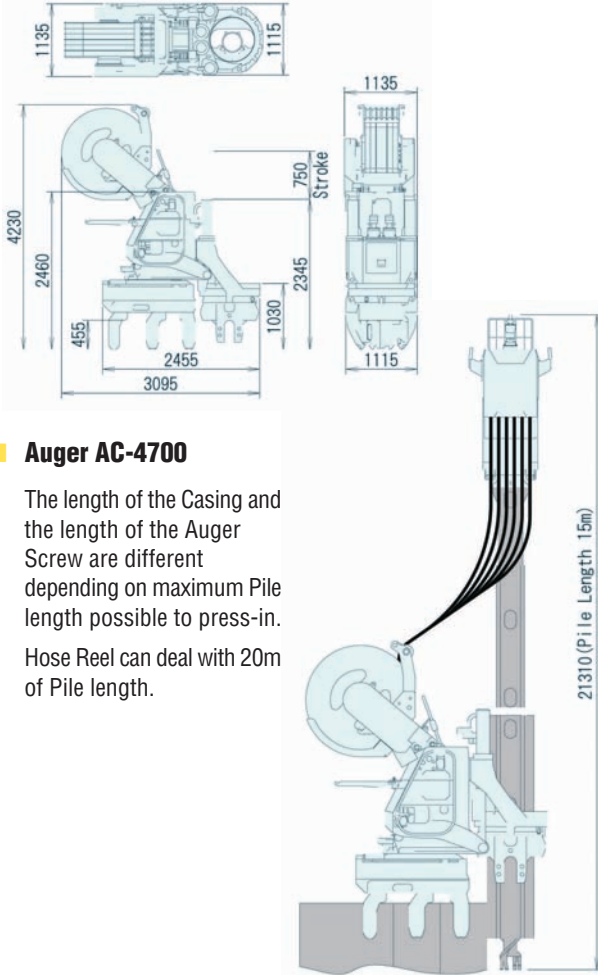


TE-200 Super Low-Noise Diesel-Driven Hydraulic Power Unit (Standard Accessory)

WP-100AC

Auger Crush WP-100AC can press 400mm, 500mm and 600mm wide U Piles with Integral Auger AC4700 into hard ground conditions

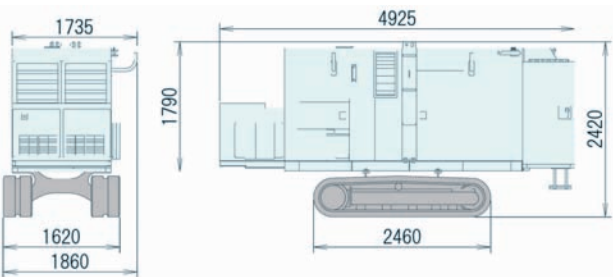
STILL WORKER WP-100AC



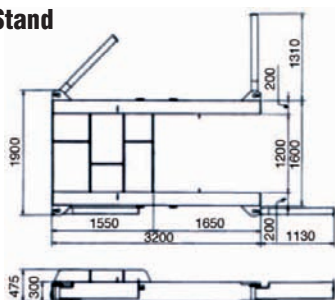
Auger AC-4700

The length of the Casing and the length of the Auger Screw are different depending on maximum Pile length possible to press-in. Hose Reel can deal with 20m of Pile length.

Hydraulic Power Unit TE-200X



Reaction Stand



Specification

STILL WORKER	WP-100AC
MAX. Pressing-in Force	800kN
MAX. Drawing-out Force	900kN
Stroke	750mm
Pressing-in Speed	3.0-36.0 m/min
Drawing-out Speed	2.4-28.0 m/min
Tilting Device	± 5 degrees
Applicable sheet piles	U Profile 400mm, 500mm, 600mm
Operation System	Wireless radio-control
Moving System	Self-moving
Greases	Biodegradable Greases
Weight	10,100kg

Auger	AC-4700
MAX. Auger Torque	27.0kN m (High Speed) 47.0kN m (Low Speed)
Pressing-in Force	330kN
Stroke	500mm
Weight	7,700kg (Pile Length 15m)

HYDRAULIC POWER UNIT	TE-200X
Power	Diesel Engine 4-cycle, Water-Cooled Direct Injection Turbo
Output Rating	147.1kw/1,800min ⁻¹
Pump	Variable-Capacity Pump
Pressure Rating	40MPa max.
Fuel Oil tank	350 Litres
Crawler Operation System	Cabled remote-control
Drive method	2 motors
Moving Speed	1.6km/h
Weight	7,200kg

Reaction Stand	ZU-100
Dimension	Length 4,000mm Width 2,200mm Height 462mm
Weight	2,400kg

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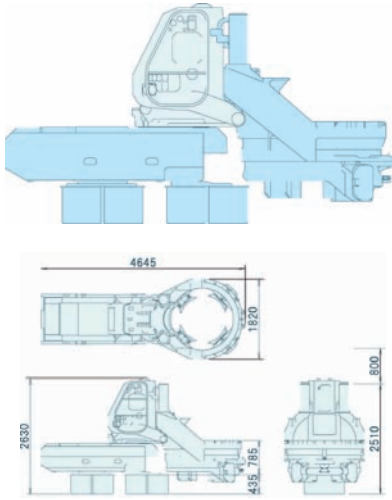
WP-150P, WP-150P II, WP-150P III

The WP-150P and WP-150P III can install 800mm O/D, 900mm O/D and 1000mm O/D interlocking tubular piles.

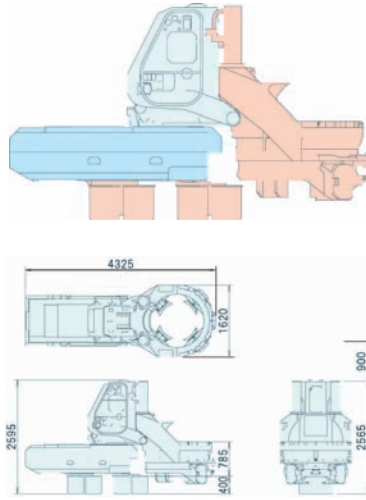
The WP-150P II can install 600mm O/D and 700mm O/D interlocking tubular piles.



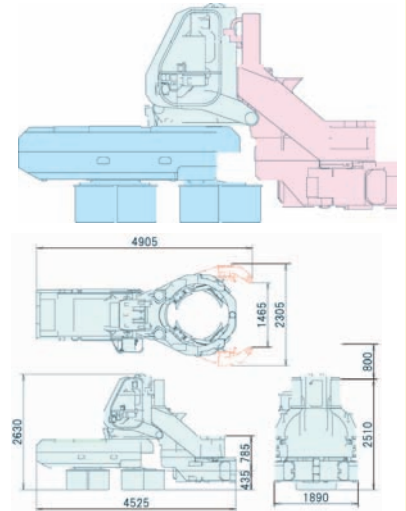
STILL WORKER WP-150P



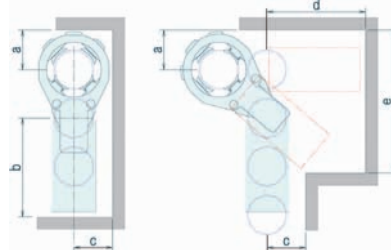
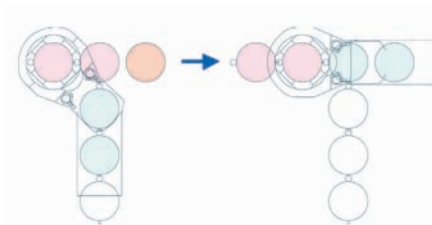
STILL WORKER WP-150P II



STILL WORKER WP-150P III

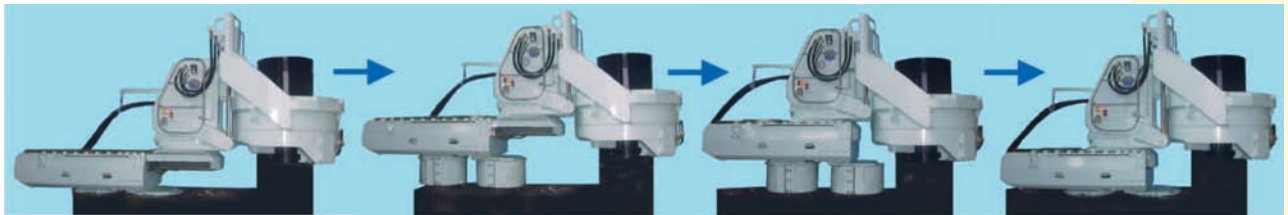


Turning a corner with the WP-150P



	WP-150P	WP-150P II	WP-150P III
a	1,030mm	930mm	950mm
b	2,550mm	2,500mm	2,550mm
c	1,000mm	900mm	1,050mm
d	2,550mm	2,500mm	–
e	3,700mm	3,700mm	–

Self travel procedure WP-150P



Specification

STILL WORKER	WP-150P	WP-150P II	WP150P III
MAX. Pressing-in Force	900kN		1,100kN
MAX. Drawing-out Force	1,000kN		1,200kN
Stroke	800mm		900mm
Pressing-in Speed	3.4-38.0 m/min		2.5-28.0 m/min
Drawing-out Speed	3.0-30.0 m/min		2.3-22.0 m/min
Applicable tube piles	ø1000, ø900, ø800mm PP, LT, PT		ø700, ø600 PP, LT, PT
Weight	16,400kg	16,350kg	15,000kg

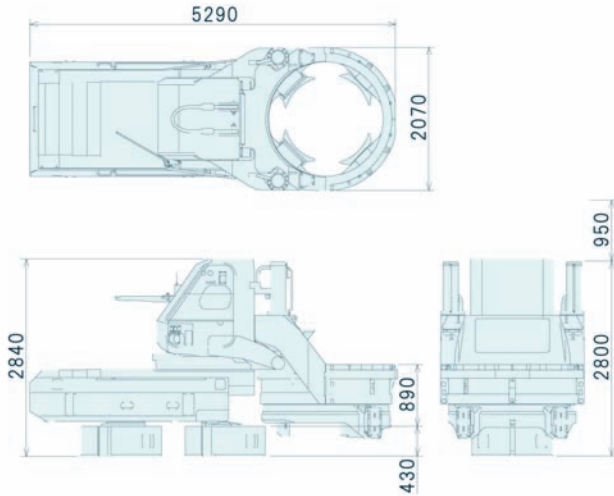
HYDRAULIC POWER UNIT	TE-200
Power	Diesel Engine 4-cycle, Water-Cooled Direct Injection Turbo
Output Rating	147.1kw/1,800min ⁻¹
Pump	Variable-Capacity Pump
Pressure Rating	40MPa max.
Fuel Oil tank	350 Litres
Hydraulic Oil tank	550 Litres
Weight	5300kg

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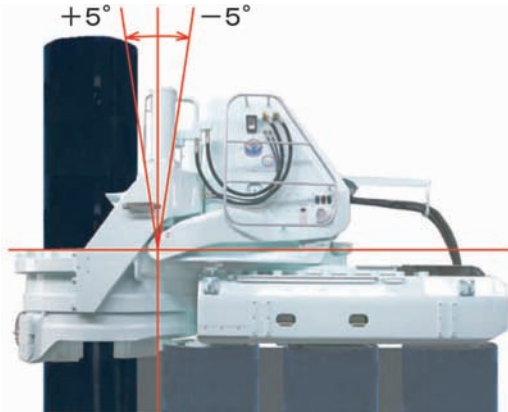
PZ-1200

The PZ-1200 can install 1000mm O/D, 1100mm O/D and 1200mm O/D tubular piles.

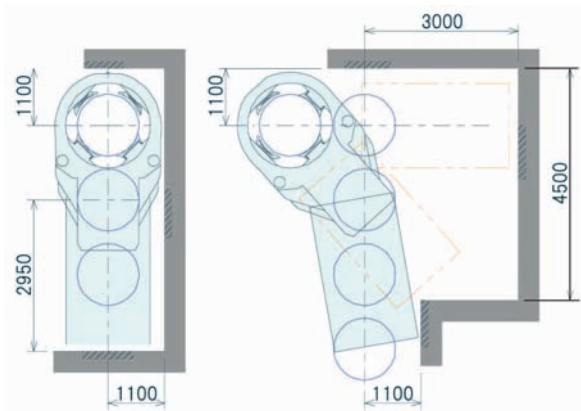
■ STILL WORKER PZ-1200



■ MAST TILTING



■ TURNING A CORNER WITH THE PZ-1200



Specification

STILL WORKER	PZ-1200
MAX. Pressing-in Force	1,500kN
MAX. Drawing-out Force	1,600kN
Stroke	950mm
Pressing-in Speed	1.9-19.0 m/min
Drawing-out Speed	2.0-15.0 m/min
Applicable tube piles	ø1200, ø1100, ø1000 PP, LT, PT
Weight	28,000kg

HYDRAULIC POWER UNIT	TE-200
Power	Diesel Engine 4-cycle, Water-Cooled Direct Injection Turbo
Output Rating	147.1kw/1,800min ⁻¹
Pump	Variable-Capacity Pump
Pressure Rating	40MPa max.
Fuel Oil tank	350 Litres
Hydraulic Oil tank	550 Litres
Weight	5300kg

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