HELICAL PILE INFORMATIZATION INSTALLATION SYSTEM

Yichen helical pile installation system provides strong support for the installation of helical piles/anchors. It consists of a drive system, sensor system, and in-cab monitoring system.

The data transmission between system components is completed through wireless signals, the monitored real-time data will be fed back to the monitoring system in the cab of the base machine. Yichen helical pile installation system can endow operators with the ability to accurately control the installation angle and read real-time changes in the ground state.





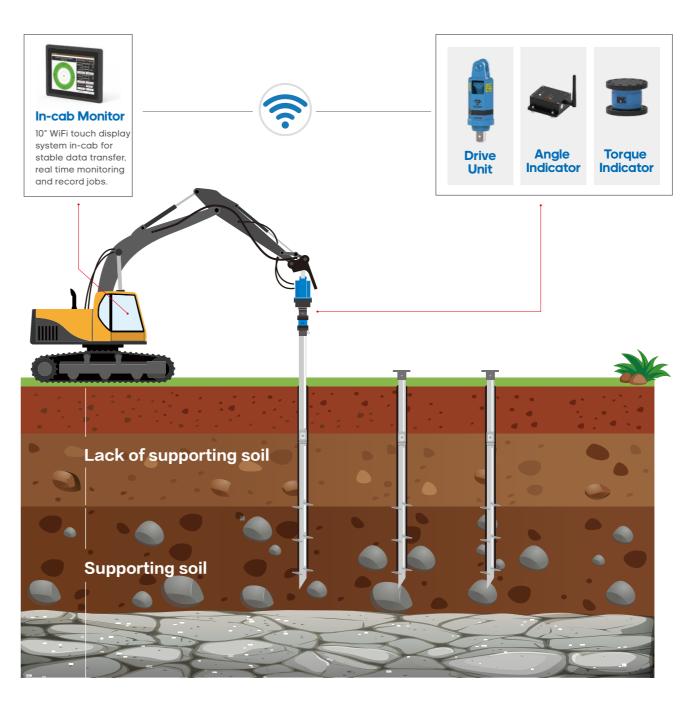




APPLICATIONS

- Pole bases • Underpin existing foundations • Walkways, boardwalks Telecommunication masts/platforms
- Electrical equipment, pylons and poles
- Buildings/modular buildings (mobile houses)
- Highways structures (signage)
- Concrete slab lifting and stabilization
- concrete-less foundations
- Rail structures (signalling, platforms, overhead line equipment)
- Structural support (compression or tension) for both permanent and temporary structures

A helical pile can be used in nearly any situation and where driven or cast in place piles are currently used.



- - Solar farms
- Fencing
- Temporary/permanent seating (stands)
- Anchors (back stays/tension guys)
- Retaining walls, flood defences, sea walls, bulkheads
- Wind turbines
- Utility and pipeline tie downs
- Slope stabilization,

HELICAL PILE SERIES

NAMES OF TAXABLE PARTY OF TAXABLE PARTY

HELICAL PILES

PRODUCT PARAMETER

2.875" x 0.217" Nominal 0.875" 0.375" Thick, Helix Die-Pressed8",	- 3.5" x 0.3" Nominal 0.875" 0.5" Thick, Helix Die-Pressed8",	4.5" x 0.337" Nominal	5.5" x 0.361" Nominal	
0.375" Thick, Helix Die-Pressed8",		1"	1"	
	0.5" Thick. Helix Die-Pressed8".			
10,12,14 & 10 Diameter Available	10", 12", 14" & 16" Diameter Available	0.5" Thick, Helix Die-Pressed10", 12", 14" & 16" Diameter Available	0.5" Thick, Helix Die-Pressed10", 12", 14" & 16" Diameter Available"	
3"	3"	3"	3"	
Galvanized (G), Bare Steel (NG),	Galvanized (G), Bare Steel (NG),	Galvanized (G), Bare Steel (NG),	Galvanized (G), Bare Steel (NG),	
Epoxy Powder Coated (EP)	Epoxy Powder Coated (EP)	Epoxy Powder Coated (EP)	Epoxy Powder Coated (EP)	
36 tons	44 tons 72 tons		92 tons	
18 tons	22 tons	36 tons	46 tons	
32 tons	36 tons	62 tons	78 tons	
16 tons	18 tons	31 tons	39 tons	
	10", 12", 14" & 16" Diameter Available 3" Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP) 36 tons 18 tons 32 tons	10", 12", 14" & 16" Diameter Available10", 12", 14" & 16" Diameter Available3"3"Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP)Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP)36 tons44 tons18 tons22 tons32 tons36 tons	10", 12", 14" & 16" Diameter Available10", 12", 14" & 16" Diameter Available12", 14" & 16" Diameter Available3"3"3"Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP)Galvanized (G), Bare Steel (NG), Epoxy Powder Coated (EP)Epoxy Powder Coated (EP)36 tons44 tons72 tons18 tons22 tons36 tons32 tons36 tons62 tons	

Product advantages

- Cost Effective
- Quick Installation
- No Curing Time
- Can be battered
- Proven Engineering
- Environmental Friendly
- Installation in All Weather Conditions
- Re-Usable
- Low Construction Noise
- Vibration Free

- Removable for Temporary Structures
- Can Be Grouted After Installation
- Resist Corrosion Through Galvanization







ANGLE INDICATOR

PRODUCT PARAMETER

The Yichen angle indicator can detect the drilling angle of auger or helical piles (anchors) in real-time, and transmit angle data to the In-cabin Monitor through wireless transmission to form a visual image, **assisting the operator in completing precise angle control.**

MOD.	Temp Effect on Output	Operating Temp Range	Data Transmission	Power	Protection Class	Accuracy	Capacity
	10 F ⁰					0.1° (static)	X: ±180°
±0.5° (-40°C~+85°C)	-20° TO 80°C	Wireless	Lithium Battery	IP66		Y: ±90°	
					0.5° (dynamic)	Z: ±180°	









The In-cab Monitor installed in the cab of the base machine is used to receive and record data from sensors, and convert these data into more intuitive graphics, **providing real-time information for operators and assisting them in completing various precise operations.**

MOD.	Display Size	System	Operating Temp Range	Data Transmission	Power	Protection Class
EM-10W	10.1'	Win	-20° TO 60°C	Wireless	Lithium Battery	IP67





TORQUE INDICATOR



The Yichen Torque Indicator can achieve real-time measurement of torque and transmit torque data to the In-cabin Monitor through wireless transmission. For helical piles (anchors) installed through Empirical Torque Factor, it is an essential equipment.

Operating Temp Range	-20° TO 80°C	Temp Effect on Output	0.05% F.S./10°C	MOD.	Max. Capacity	Size	Weight
Linearity	0.05% F.S.	Temp Effect on Zero	0.05% F.S./10°C	ATS-10	10000N.m	Ø230x180mm	34.5kg
Hysteresis	0.05% F.S.	Impadance	700Ω	ATS-20	20000N.m	Ø230x180mm	34.5kg
Repeatability	0.05% F.S.	Working Voltage	5-15V	ATS-50	50000N.m	Ø280x190mm	48kg
Zero Balance	0.05% F.S.	Data Transmission	Wireless	ATS-100	100000N.m	Ø300x220mm	74.7kg
Safe Overload	150% F.S.	Protection Class	IP66				



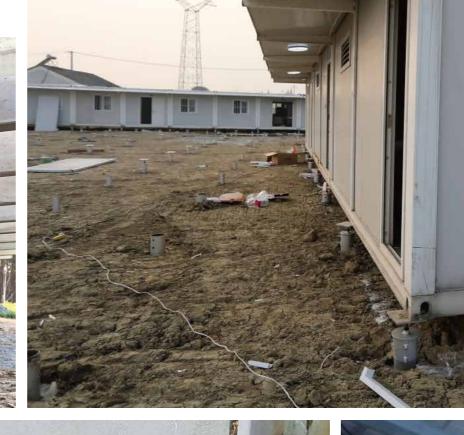


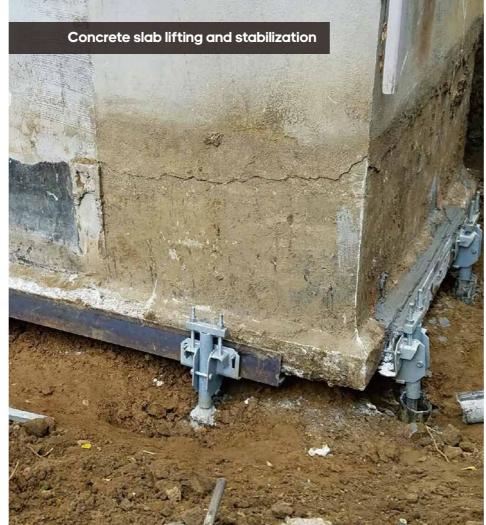


Buildings/modular buildings (mobile houses)

Structural support (compression or tension) for both permanent and temporary structures

Electrical equipment, pylons and poles





Solar farms

1-65





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