ONE STEP AHEAD IN EARTH DRILLING TECHNIQUE



# PRODUCT GUIDE EARTH DRILL

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# AUGER DRIVE



# PRODUCT INTRODUCTION

Yichen auger drive YA series is a drilling device that powered by excavator or skid steer loader hydraulic system to drive a earth auger or helical pile into the ground.

Manufactured from high grade materials and precision engineered components. Designed to withstand extreme working conditions. High grade synthetic gear oil used for extra protection and long service life.

The series has a variety of specifications and accessories to meet different operating need.

# PRODUCT FEATURES



#### **HIGH QUALITY STEEL**

Manufactured from

high grade materials

•



#### **EXTREME ENVIRONMENT**

Designed to withstand extreme working conditions

THE PARTY OF THE P

#### **LONGER LIFESPAN**

**Adopting advanced carbon-nitriding technology** to achieve unparalleled strength and durability in gears.Precision engineered Planetary Gearbox for more stable use and longer lifespan.



#### **SAFETY DESIGN**

The strong ear plate and safety pin design ensure that the drive cannot fall off the hitch.



#### **HIGH QUALITY MOTOR**

**VICHEN** has equipped its auger drives with **high-quality and reliable motors.** 



### **LIFETIME WARRANTY**

**YICHEN** provides a lifetime warranty for its output shaft.



### **PRODUCT PARAMETER**

Model	YA 1000	YA 2000	YA 3000	YA 5000	YA 8000	YA 10000	YA 18000	YA 30000	YA 50000	YA 80000	YA 110000	YA 130000	YA 180000
Excavator	0.5-2 ton	0.5-2 ton	1-3 ton	3-4.5 ton	4.5-8 ton	5-10 ton	8-15 ton	15-22 ton	20-36 ton	26-40 ton	20-40 ton	20-40 ton	30-50 ton
Max.Output Torque	1000 Nm	1900 Nm	3000 Nm	5000 Nm	8000 Nm	10000 Nm	18000 Nm	30000 Nm	50000 Nm	80000 Nm	111800 Nm	130520 Nm	180000 Nm
Pressure	150- 170 Bar	70- 240 Bar	70- 240 Bar	80- 240 Bar	80- 260 Bar	80- 260 Bar	80- 240 Bar	160- 260 Bar	220- 350 Bar	220- 350 Bar	180- 260 Bar	180- 250 Bar	180- 240 Bar
Oil Flow	20- 40 LPM	27- 75 LPM	27- 75 LPM	50- 95 LPM	60- 135 LPM	60- 135 LPM	80- 170 LPM	80- 170 LPM	100- 300 LPM	200- 400 LPM	200- 300 LPM	240- 320 LPM	300- 420 LPM
Rated Power	13 kw	19 kw	24 kw	42 kw	67 kw	80 kw	80 kw	94 kw	157 kw	167 kw	105KW	110KW	120KW
Output Shaft Size	65mm round	65mm round/	65mm round /	65mm round /	2.5" hex /	2.5" hex /	75mm square	75mm square	110mm square	110mm square	160mm square	160mm square	160mm square
		2" hex/ 57mm square	2" hex / 57mm square	2" hex / 57mm square	75mm square	75mm square							
Output Shaft Speed	70 RPM	30- 95 RPM	35- 88 RPM	42- 80 RPM	35- 80 RPM	35- 80 RPM	20- 42 RPM	12- 28 RPM	0- 30 RPM	0- 20 RPM	0- 10 RPM	0- 10 RPM	0- 9 RPM
Weight	35 kgs	41 kgs	41 kgs	66 kgs	124 kgs	131 kgs	165 kgs	255 kgs	460 kgs	770 kgs	1050 kgs	1250 kgs	1450 kgs
Overall Length	550 mm	606 mm	606 mm	687 mm	808 mm	808 mm	937 mm	1158 mm	1354 mm	1472 mm	1500 mm	1600 mm	1600 mm
Hydraulic Hose	1/2"BSP	1/2"BSP	1/2"BSP	1/2"BSP	1/2" BSP(or 3/4" BSP)	1/2" BSP(or 3/4" BSP	3/4"BSP	1"BSP	1"BSP 1-1/4"BSP	SAE FS- 20 1- 1/4" BSP			
Recommended	H \$	<b>+</b>	<b>#</b>	<b>+ \$</b>	H \$	<b>+ \$</b>	U T	<b>++</b> *	<b>+</b>	<b>11</b> \$	<b>H</b> \$	H \$	H \$
Hitch		<b>₩</b>	<b>∨</b> 1	V T	V 1	O 1	A 7	V 1	V 1	V 1	<b>∨</b> 1	V 1	V T
	Single Pin Double Pin Hitch Cradle Hitch												
						<b>*</b>	*		<b>*</b>	<b>*</b>	*		
	Double Pin Skid Steer Hitch Loader Frame	Double Pin Hitch											
Recommended					_				_				_
AugerHub	4		9 8	9 1 I									
	65mm round	65mm round 2"hex	65mm round 2"hex	65mm 2"hex 2.5"hex	75mm square 2.5"hex	75mm square 2.5"hex	75mm square	75mm square	110mm square	110mm square	160mm square	160mm square	160mm square
Recommended	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1				9 9	9 9
Auger Diameter			<u></u>	<b> </b>	<u></u>	<b> </b>	-   -   -	<b>1</b> − <b>≴</b>	1	1-1	1	1	1
	150-300 mm	150-400 mm	150-500 mm	150-900 mm	150-900 mm	150-1000 mm	150-1200 mm	150-1500 mm	300-1800 mm	300-2000 mm	450-2000 mm	450-2000 mm	450-2000 mm
Auger Extension	Customizable												

# **DRILLING PERFORMANCE REFERENCE**

	Diamet	er(mm)	150	200	250	300									
Auger	Drilling	Soft	3.5	3.0	2.5	2.5									
YA 1000	Depth	Medium	3.5	3.0	2.4	2.4									
	(m)	Hard	3.0	3.0	2.2	2.2									
	Diamet	er(mm)	150	200	250	300	350	400							
Auger	Drilling	Soft	3.5	3.0	2.5	2.5	2.4	2.0							
YA 2000	Depth	Medium	3.5	3.0	2.4	2.4	2.2	1.8							
	(m)	Hard	3.0	3.0	2.2	2.2	2.0	1.5							
	Diamet	er(mm)	150	200	250	300	350	400	450	500					
Auger	Drilling	Soft	3.5	3.0	2.5	2.5	2.4	2.0	1.7	1.5					
YA 3000	Depth	Medium	3.5	3.0	2.4	2.4	2.2	1.8	1.6	1.4					
	(m)	Hard	3.0	3.0	2.2	2.2	2.0	1.5	1.5	1.3					
	Diamet	er(mm)	150-600	650	700	750	800	850	900						
Auger	Drilling	Soft	4.5	3.2	3.0	2.6	2.0	1.7	1.5						
YA 5000	Depth	Medium	4.2	3.7	2.8	2.4	1.8	1.6	1.3						
	(m)	Hard	3.5	3.3	2.5	2.1	1.7	1.4	1.2						
	Diamet	er(mm)	150- 500	550	600	650	700	750	800	850	900				
Auger	Drilling	Soft	6.5	4.5	4.0	4.0	4.0	3.6	3.0	2.6	2.5				
YA 8000	Depth	Medium	5.5	4.5	3.7	3.7	3.7	3.5	2.8	2.7	2.2				
7710000	(m)	Hard	5.0	3.5	3.5	3.5	3.2	3.0	2.4	2.4	2.0				
	Diamet	er(mm)	150- 500	550	600	650	700	750	800	850	900	1000			
Auger	Drilling	Soft	6.5	4.5	4.0	4.0	4.0	3.6	3.0	2.6	2.5	2.3			
YA 10000	Depth	Medium	5.5	4.5	3.7	3.7	3.7	3.5	2.8	2.7	2.2	1.9			
	(m)	Hard	5.0	3.5	3.5	3.5	3.2	3.0	2.4	2.4	2.0	1.5			
	Diamet	er(mm)	150- 400	500	600	650	700	750	800	850	900	950	1000	1100	1200
Auger	Drilling	Soft	8.6	7.2	7.1	7.0	6.5	6.1	6.0	5.7	5.5	5.3	5.0	4.7	4.5
YA 18000	Depth	Medium	7.6	6.4	6.4	6.2	5.8	5.4	5.3	5.2	5.0	4.6	4.5	4.2	4.0
	(m)	Hard	7.0	5.8	5.7	5.5	5.4	5.0	4.8	4.6	4.6	4.3	4.2	4.0	3.7
	Diamet	er(mm)	150- 400	450	500	550	600	650	700	800	900	1000	1100	1200	1500
Auger	Drilling	Soft	9.0	8.6	8.6	8.6	8.6	8.4	8.0	7.6	7.0	6.5	6.3	6.0	5.0
YA 30000	Depth	Medium	8.2	7.7	7.7	7.7	7.7	7.5	7.3	6.8	6.3	6.0	5.7	5.5	4.6
17130000	(m)	Hard	7.3	7.0	7.0	7.0	7.0	6.8	6.6	6.2	5.7	5.3	5.0	4.8	4.0
	Diamet	er(mm)	300-450	500	550	600	650	700	800	900	1000	1100	1200	1500	1800
Auger	Drilling	Soft	12	12	11	11	11	10	9	9	8	8	7	6	4
YA 50000	Depth	Medium	11	11	10	10	10	9	7	7	6	6	5	5	3.3
17130000	(m)	Hard	8	8	7	7	7	7	6	6	5	5	5	4	2.5
	Diamet	er(mm)	300-600	700	800	900	1000	1100	1200	1500	1800	2000			
Auger	Drilling	Soft	15	14	14	14	12	12	10	8	8	7			
YA 80000	Depth	Medium	11	10	10	10	9	9	8	7	7	6			
	(m)	Hard	8	7	7	7	7	7	6	6	6	5			
	Diamet	er(mm)	450-600	700	800	900	1000	1100	1200	1500	1800	2000			
Auger		Soft	19	18	18	18	16	16	14	12	12	11			
YA 110000	Drilling Depth	Medium	14	13	13	13	13	13	11	10	10	9			
	(m)	Hard	10	9	9	9	9	9	8	8	8	7			
		er(mm)	450-600	700	800	900	1000	1100	1200	1500	1800	2000			
Auger		Soft	22	21	21	21	19	19	17	1500	15	14			
YA 130000	Drilling Depth	Medium	16	15	15	15	15	15	13	12	12	11			
17. 150000	(m)	Hard	11	10	10	10	10	10	9	9	9	8			
	Diamet		450-600	700	800	900	1000	1100	1200	1500	1800	2000		_	
Auger		` '	27	26	26	26	24			20					
YA 180000	Drilling	Soft	20	19	19	19	19	24	22 17	16	20 16	19			
1V 100000	Depth (m)	Medium						19				15			
	(111)	Hard	14	13	13	13	13	13	12	12	12	11			





### HIGH SPEED AUGER DRIVE

The drive unit is specially designed for **high-speed applications**, which can bring users unparalleled productivity.

Product specifications can be customized according to customer application requirements.











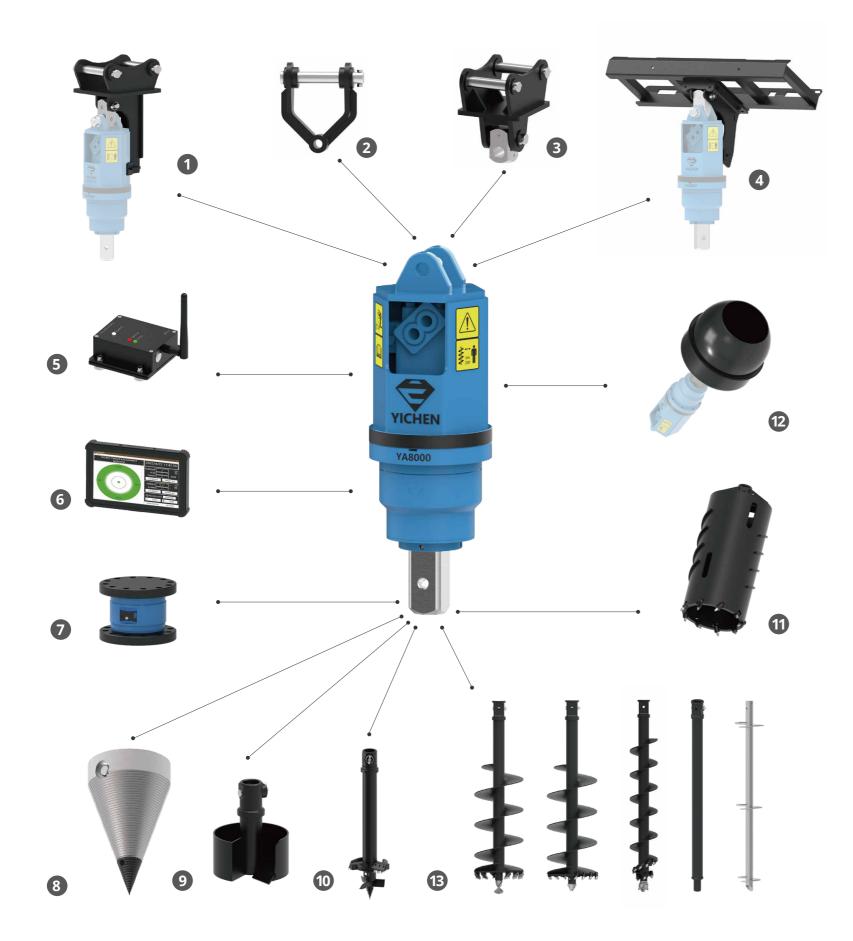
### HORIZONTAL DRILL AUGER DRIVE



It is designed for **horizontal drilling**, often used for some foundation penetrations. Product specifications can be customized according to customer application requirements.







### **ACCESSORY**

### HITCH

- 1 Double Pin Cradle Hitch
- 2 Single Pin Hitch
- 3 Double Pin Hitch
- 4 Skid Steer Loader Frame

### **TOOL**

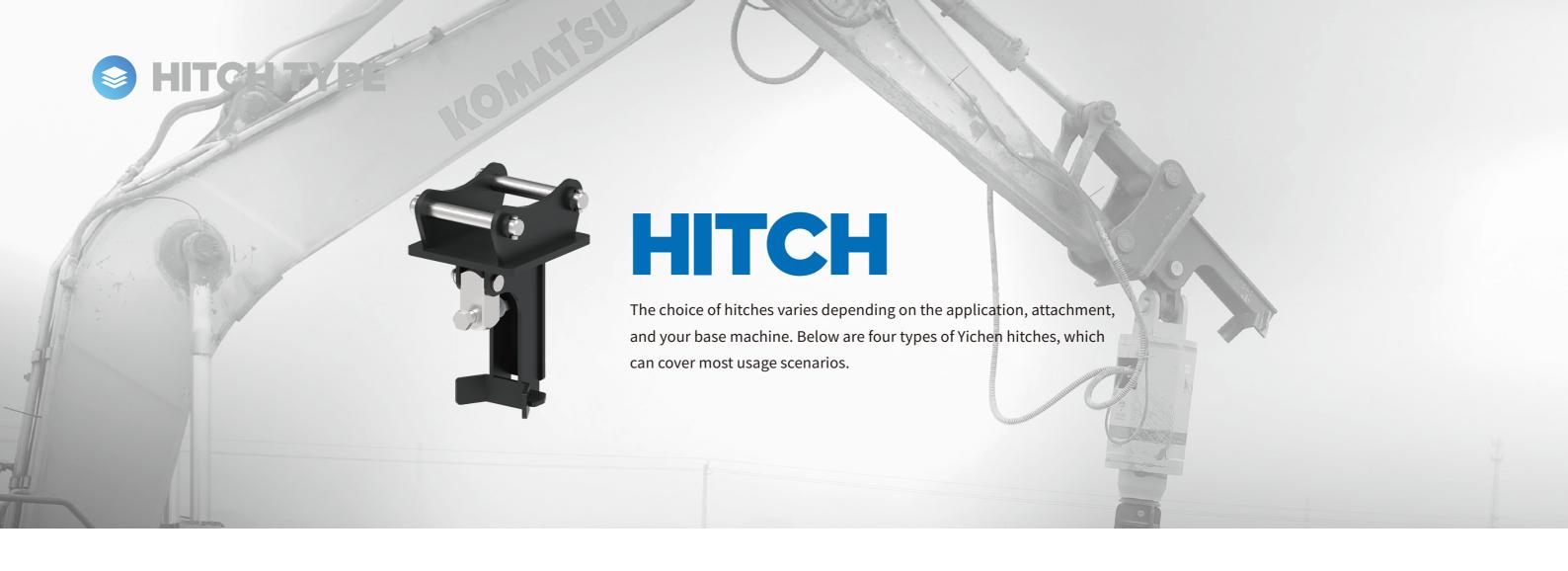
- 8 Log Splitter
- 9 Hole Cleaner
- 10 Stump Planer
- 11 Core Barrel
- 12 Cement Mixer Bowl

### **SENSOR**

- 5 Angle Indicator
- 6 In-cab Monitor
- 7 Torque Indicator

### **AUGER**

- 13 W2 Earth Augers
  - W3 Combination Auger
  - W4 Rock Auger
  - Auger Extension
  - Helical Piles



### **SINGLE PIN HITCH**



The single pin hitch is lightweight and non-bulky, making it easy to transport and fit and offers a financially economical option.

#### **DOUBLE PIN HITCH**



The double pin hitch can be supplied in both loose and fixed pin versions to suit standard and quick hitch solutions on most excavators & backhoes.It is suitable for all Yichen drive unit ranges.

### **DOUBLE PIN CRADLE HITCH**



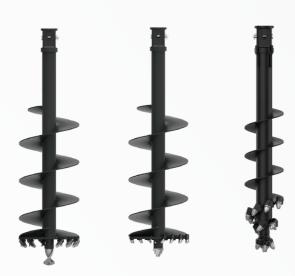
This hitch is suitable for all Yichen drives from the YA2000 to YA100000. Will eliminate Auger swing during dirt shake off, will enable you to safely transport your Earth Drill and Auger on site.

### **SKID STEER LOADER FRAME**



This product is designed to allow you to take your auger drive and add it to a skid steer mounted frame with slide operation. It is suitable for Yichen drives from the YA2000 to YA5000.

### AUGER



# PRODUCT INTRODUCTION

Yichen auger products can be used perfectly with Yichen auger drives, and are also suitable for drives from most other manufacturers.

In order to cope with different geological conditions, Yichen augers are mainly divided into three categories: W2, W3 and W4. Whether it is clay geology or rock geology, you can find a solution that suits your application. Yichen augers are made of the most advanced design and the best materials. Can effectively improve your production efficiency.

**Excellent reliability and durability.** 



### **AUGER TYPES**







#### All purpose earthauger forgeneral drilling

Effecient and cost effective auger forgeneral purpose drilling in earth, clayshale and soft rocks. Multi-faced tungstenproviding longer wear life and greatercutting performance.





#### Taper teeth design the ultimateall performance auger

The angle and geometry of the teeth to thepilot is the key to the effciency in whichthese augers perform. This auger is fttedwith Tungsten Taper Teeth for the ultimateripping ability infracturable rock, permafrostand general earth conditions.

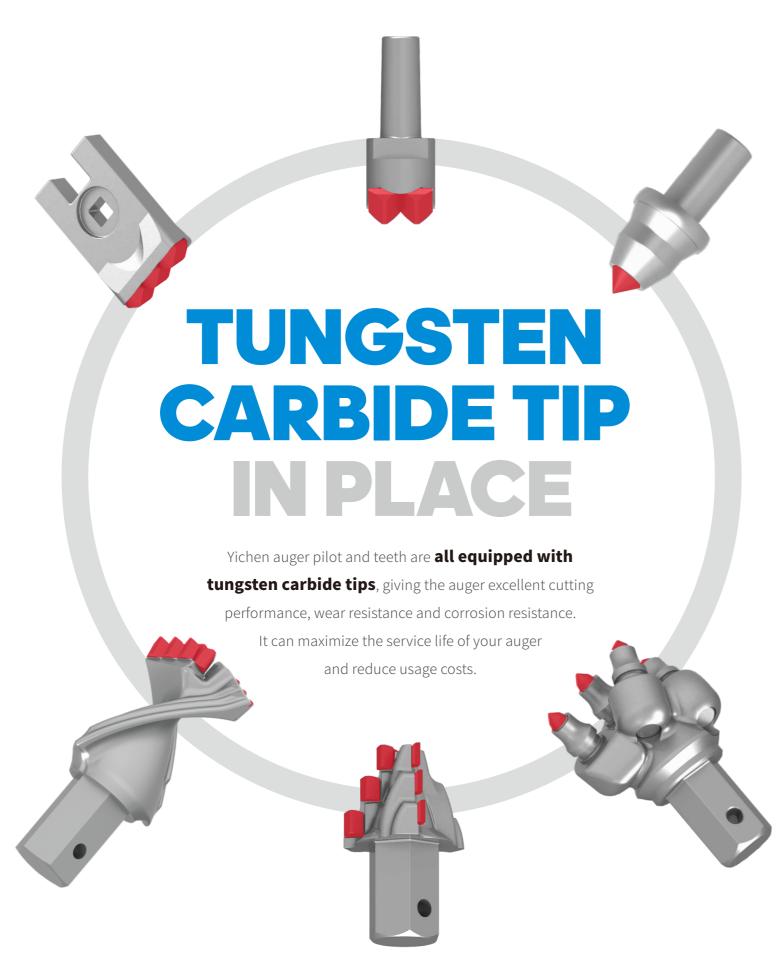




#### Heavy duty auger for dedicatedrock drilling

YICHEN Rock augers -heavy duty engineereddesign, with high efciency cutting heads tomaximize your rock drilling performance Fitted with a range of quality wear partsproviding superior wear and performance.







### **APPLICATIONS**











### LOG SPLITTER



# PRODUCT INTRODUCTION

### Process and reuse logs with ease.

Suitable for 1–5 ton excavators and skid steer loaders, the compact and durable log splitter produced by Yichen can easily, quickly and efficiently process fallen trees into manageable fragments.

As the log splitter rotates, the self-guided threaded body engages the log and pulls the log splitter into the log. The tip of the cone quickly passes through the log, splitting it in two. For larger logs, the wood splitter can be repositioned to continue splitting along the entire length of the log.

Yichen Log Splitter is a quick and easy attachment to your existing auger.



The Yichen Log Splitter makes the job simple and efficient, and it can quickly dispose of fallen trees into manageable pieces.

### SINGLE FIXING POINT

Securely fix to the Log Splitter to your existing drive unit.



#### **COMPACT AND ROBUST**

A solid **one piece construction** for a sturdy, reliable tool.

#### **SELF GUIDING** •

The **self-guiding threaded** body engages with the timber, drawing the Log Splitter into the log.



The conical shape can be drilled in quickly and split the timber.

### NO MAXIMUM LOG LENGTH

The Log Splitter can be repositioned to continue the split along the whole length of the log.



### REPLACEABLE HARDENED CONE TIP

The cone tip is **hardened** to make it more durable, and the replaceable tip design gives the Yichen log splitter an **extremely long service life.** 

۱	MOD.	Base Machine Compatibility	Diameter (mm)	Length (mm)	Hub Options	Unit Weight (kg)	Drive Compatibility
	ALS-180	1-5 tonnes excavators or skid steer loaders	180	300	65 Round	14.6	YA2000 YA3000 YA5000

### STUMP PLANER





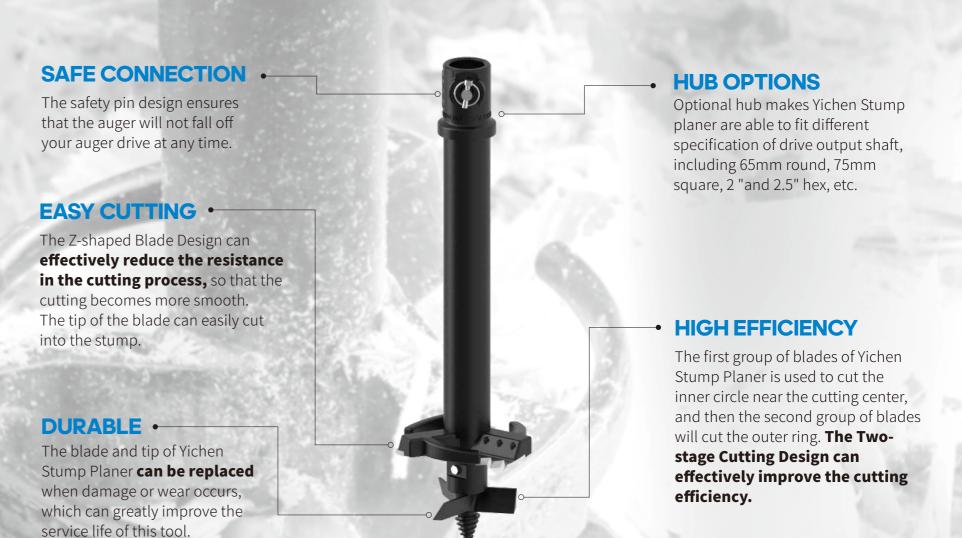
#### Suitable for 1T-5T skid steers and excavators.

Tree stump removal is a noisy, messy, and time-consuming job. Traditional removal methods shower debris over a large area, making cleanup a time-consuming job. YICHEN Stump Planer is a quick and easy add-on attachment to any soil auger, providing effective, simple and clean removal of stumps of any size, making it a must-have for those involved in ground preparation and woodland maintenance.

\*If the stump has a larger diameter than the Stump Planer, use a multispot approach by planing in multiple locations and overlapping each location to ensure complete removal.



Yichen Stump Planer allows you to easily complete the tree stump cleaning work.



MOD.	Base Machine Compatibility	Diameter (mm)	Length (mm)	Hub Options	Unit Weight (kg)	Drive Compatibility
ASP-250	1-5 tonnes excavators or skid steer loaders	250	635	65 Round	25	YA3000 YA5000
ASP-350	4.5-10 tonnes excavators or skid steer loaders	350	675	75 square	33	YA8000 YA10000

### CORE BARREL



# PRODUCT INTRODUCTION

Core Barrels are used when conventional augers are less effective or in conjunction with tapered rock augers for very hard rock drilling.

Yichen Core Barrel is designed with a thin cutting edge to maximize the penetration rate through less contact surface area having to be cut and removed.

Ranges from 450mm - 1200mm in diameter and come fitted with a optional hubs to suit your machine.



#### **HUB OPTIONS** •

Optional hub makes Yichen Core Barrels are able to fit different specification of drive output shaft, including 75mm square, 110mm square, etc.

#### **WEAR-RESISTING** •

Wear ribs extend barrel life & eliminate barrel stalling.



Custom bucket & tooth options available upon request.





### CEMENT MIXER BOWL



# PRODUCT INTRODUCTION

When carrying out fencing work on uneven ground, it is usually necessary to mix a small amount of cement to fix the fence. However, uneven terrain often means it is difficult to use traditional mixers. Yichen's drilling/mixing solution changed that. With the help of the mixer cradle hitch, the auger can be quickly removed and the mixer can be attached and locked in place with a standard auger pin. After the concrete is laid, it can be replaced with a auger again to drill the next hole. So simple!



### OPTIONS FOR DIFFERENT • CAPACITIES

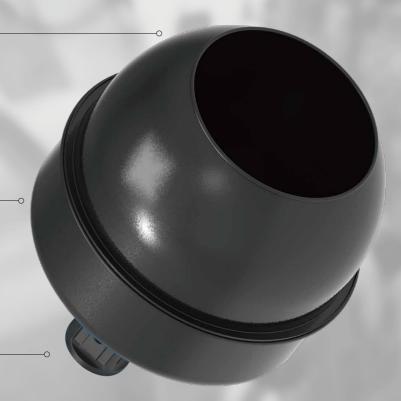
The capacity is available in 140L, 180L, and 220L options, suitable for different levels of base machines to operate.

#### **REASONABLE DESIGN** •

Compact shape design, equipped with 2 blades inside to improve mixing efficiency.



Different options for hubs, support customization of the hub to meet the needs of different drive units and connection structures.



MOD.	Drive Compatibility	Excavator (ton)	Capacity (L)	Hub (mm)	Weight (kg)
ACM-18065	YA2000 – YA5000	1-8	180	65 Round	38
ACM-18075	YA8000 – YA10000	1-8	180	75 Sqare	39

# HOLE CLEANER



# PRODUCT INTRODUCTION

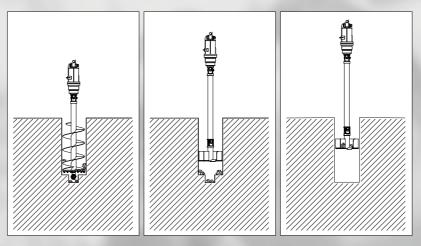
Hole Cleaners are used to remove spoil from holes after drilling to create a clean and flattened base. Yichen Hole Cleaners can be fitted with Yichen auger extension. Ideal for application in concrete pile foundations. Suitable for machines up to 10 tonnes.



#### **USE PORTABLE**

65mm round and 75mm square hub options, used with the auger extension, the removable design facilitates storage and transportation.

#### **CONSTRUCTION PRINCIPLE**





MOD.	Diameter (mm)	Height (mm)	Hub (mm)	<b>Weight</b> (kg)
A3630301	300	587	65 Round	29
A3630351	350	587	65 Round	34
A3630401	400	587	65 Round	40
A3630451	450	587	65 Round	45
A3630501	500	587	65 Round	51
A3630601	600	587	65 Round	65
A3630302	300	587	75 Square	34
A3630352	350	587	75 Square	39
A3630402	400	587	75 Square	44
A3630452	450	587	75 Square	50
A3630502	500	587	75 Square	56
A3630602	600	587	75 Square	70
A3630902	900	587	75 Square	120

### 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.





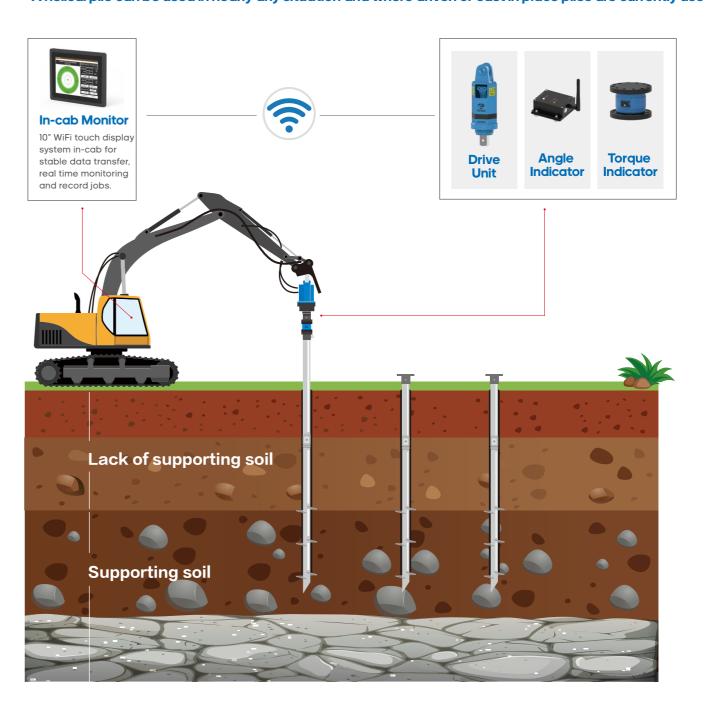


### **APPLICATIONS**

- 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

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

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





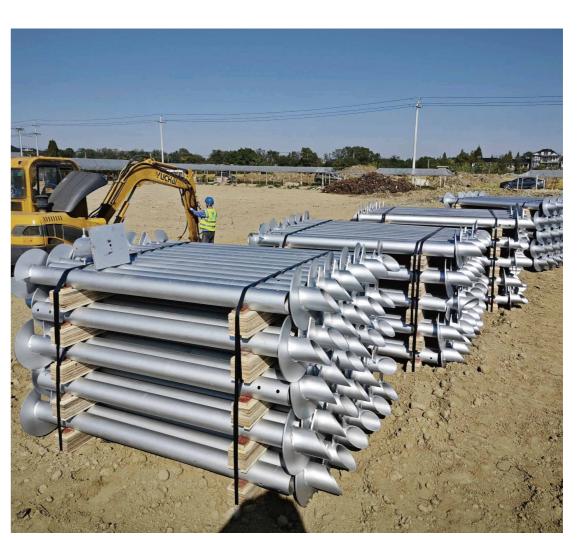


	AP - 18	AP - 22	AP - 36	AP - 46
Shaft	2.875" x 0.217" Nominal	3.5" x 0.3" Nominal	4.5" x 0.337" Nominal	5.5" x 0.361" Nominal
Bolts	0.875"	0.875"	1"	1"
Helices	0.375" Thick, Helix Die-Pressed8", 10", 12", 14" & 16" Diameter Available	0.5" Thick, Helix Die-Pressed8", 10", 12", 14" & 16" Diameter Available	0.5" Thick, Helix Die-Pressed10", 12", 14" & 16" Diameter Available	0.5" Thick, Helix Die-Pressed10", 12", 14" & 16" Diameter Available"
Pitch	3"	3"	3"	3"
Coating	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)
Compression Capacity	у			
Ultimate Capacity	36 tons	44 tons	72 tons	92 tons
Allowable Capacity	18 tons	22 tons	36 tons	46 tons
Tension Capacity				
Ultimate Capacity	32 tons	36 tons	62 tons	78 tons
Allowable Capacity	16 tons	18 tons	31 tons	39 tons

#### **Product advantages**

- Cost Effective
- Quick Installation
- No Curing Time
- Can be batteredProven 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



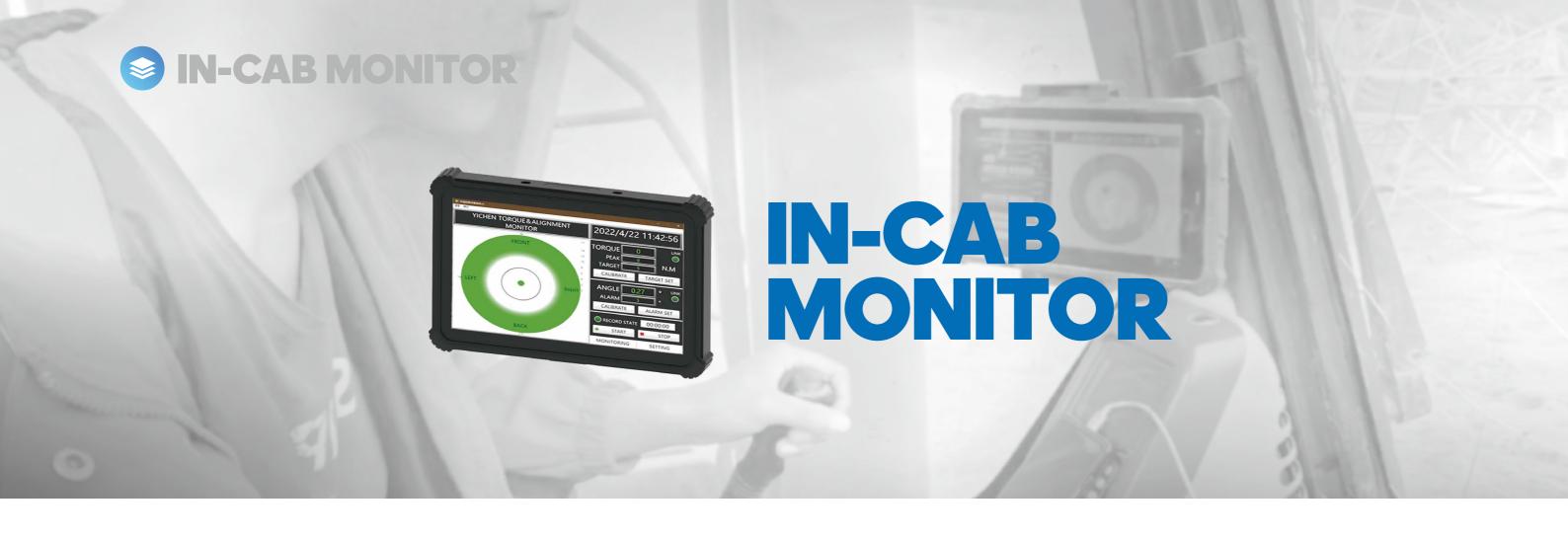




The Yichen angle indicator can detect the drilling angle of auger or helical piles (anchors) in real-time, and transmit angle data to the In-cabin Monitor through wireless transmission to form a visual image, assisting the operator in completing precise angle control.

MOD.	Temp Effect on Output	Operating Temp Range	Data Transmission	Power	Protection Class	Accuracy	Capacity
	±0.5°					0.1° (static)	X: ±180°
AAS-360	(-40°C~+85°C)	-20° TO 80°C	Wireless Lithium Battery	IP66	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







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
Linearity	0.05% F.S.	Temp Effect on Zero	0.05% F.S./10°C
Hysteresis	0.05% F.S.	Impadance	700Ω
Repeatability	0.05% F.S.	Working Voltage	5-15V
Zero Balance	0.05% F.S.	Data Transmission	Wireless
Safe Overload	150% F.S.	Protection Class	IP66

	Capacity	Size	Weight
ATS-10	10000N.m	Ø230x180mm	34.5kg
ATS-20	20000N.m	Ø230x180mm	34.5kg
ATS-50	50000N.m	Ø280x190mm	48kg
ATS-100	100000N.m	Ø300x220mm	74.7kg





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