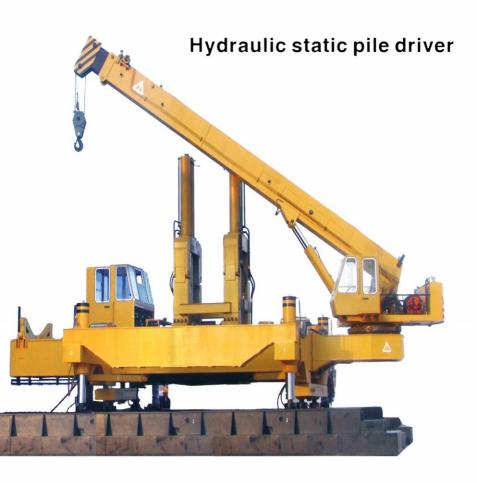


STATIC PILE DRIVER

Series #1





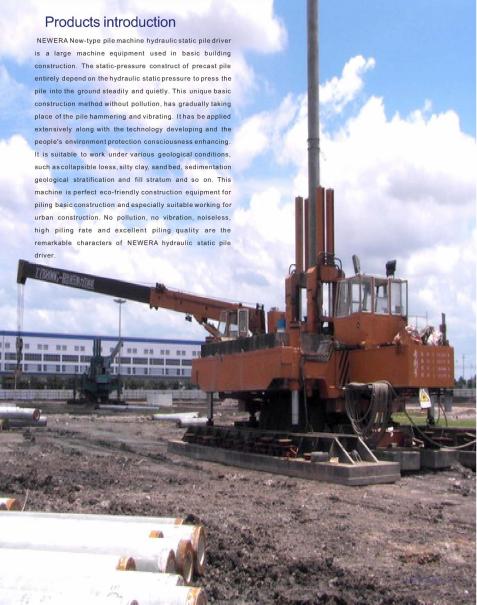


Company profile

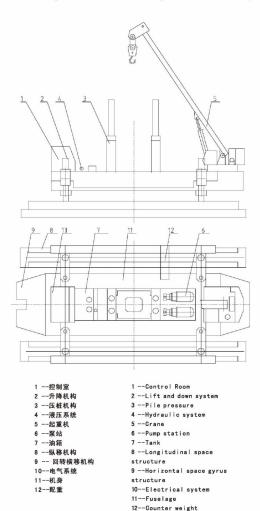
- Hunan NEW ERA Technologies Co. Ltd. is a high-tech civil enterprise located in the famous historic city, Changsha. NEW ERA has been developing by leaps and bounds since 2000. Now our company become one of the leading of manufacturing and selling the construction engineering machinery in Changsha.
- There is an excellent team in NEW ERA. It gathers high-class workers and professionals in technology, production, quality control, sale, service, and maintenance of engineering machinery industry.
- We have enjoyed a long reputation in the market and our products are popular in South-east Asia, Subcontinent of South Asia, Africa and Europe.
- Our products are durable in use, reasonable in price, and secure with after-sales service. NEW ERA welcomes all the customers to our company to select and purchase the various products of high quality, and you will have the best services!







Structure drawing of ZYB series Hydraulic static pile driver



The patents of ZYB series Hydraulic static pile driver



- The patented pile clamping mechanism and its control system makes pile clamping reliable keeps pile from being damaged, and therefore allow thin-wall-pile be drived easily.
- The patented long-feet-moving mechanism with directly driven double carts prevents the lifting mechanism from enduring sectional forces,
- The patented supporting platform articulating mechanism has the rigidity and strength 30% higher than traditional ones, making the rig more stable to operate and more convenient to transport.
- The patented lifting mechanism presents its cylinders from enduring sectional forces and consequently brings them longer operating life.
- The patented tech of multi grade control of pile driving velocity doubles the velocity
- The patented auto-replacement mechanism of traverse and rotary motion automatically keeps the rails of the short feet being parallel all the time and protects the rig from being damaged.

The structure and performance characteristics









- ZYB can drive piles more than 1200 meters a day with low noise.
- The unique design of hydraulic system leads to less energy loss and lower temperature rise during operation.

Compared with traditional-piling mechanism, ZYB side-piling mechanism increases its driving capacity by 30%-50%.

- Minimum feet contact area pressure ratio decreases by more than 15%, which makes ZYB unlikely to be caved into the earth.
- The functions of pressure-maintaining and oil-compensating ensure that the oil pressure of clamping hydraulic system constant and avoid the event that the jaw sliding on the surface of the pile in the course of driving pile.
- Pile-driving forces from the clamping box are directly transferred to the clampers, avoiding the damage from the pile-driving forces to clamping hydraulic cylinders.
- Because of being able to swing to be automatically adapted to the diameter and shape of pile, the clamping jaw and the pile can automatically keep full touch in the surface; as a result, the damage of pile is fully eliminated.
- Because of monoblack clamping jaw and two clamping jaw which can only swing but can not move being used to locate and guide piling, the pile can be kept fully parallel with the guide rail, as a result, the problem that the pile is slopingly derived and is easily sheared by traditional clamping mechanism has fully solved.
- The oil filling system inlet in the hydraulic system makes oil tiling and filtering very convenient and free of pollution.



Main parameters of ZYB series Hydraulic static pile driver

Model		ZYB120	ZYB180	ZYB240	ZYB320	ZYB420	ZYB500	ZYB600	ZYB700	ZYB800	ZYB1000	
Max pile driving force (tf)		120	180	240	320	420	500	600	700	800	1000	
Max oil press system (Mpa)	sure of t	he hydraulic	20	19.5	20.7	20.7	21	25	24	24.5	24.5	25.5
Max theoretic	piling spe	ed (m/min)	3.7	9.4	9.4	8.6	9.2	9.2	11.5	9.4	7.7	7.2
Grades of pile	driving		2	4	4	4	4	4	4	4	4	4
Pile driving str	oke (m)		2.0	2.0	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Longitudinal p	ace (m)		2	2.5	2.5	3.0	3.0	3.5	3.5	3.5	3.5	3.5
Horizontal pac	e (m)		0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
One angle ran	ge (°)		11	14	14	14	14	14	12	12	11.4	10
Lifting stroke	(m)		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	Min qua	re pile	F200	F200	F200	F300	F300	F300	F300	F300	F300	F300
	Max qua	ire pile	F300	F400	F400	F400	F500	F500	F500	F500	F500	F500
Pile standard	Min tube	e pile		Ø 300	Ø 300	Ø 300	⊄ 300	Ø 300	⊄ 300	⊄300	⊄300	⊄ 300
	Max tub	e pile		¢ 400	⊄ 400	⊄ 400	⊄ 500	⊄ 500	⊄ 600	⊄ 600	⊄600	⊄700
Min side piling space (m)		0.7	0.7	0.7	0.8	1.0	1.0	1.1	1.1	1.1	1.2	
Side and corner pile driving force (tf)		60	90	120	180	210	250	300	350	400	400	
Max lift weight (t)		5	8	8	12	12	16	16	16	16	20	
Contact area pressure ratio of long feet (t/m2)		10	10	11	11.1	11.6	12.8	12.5	13.7	14.9	17	
Contact area pressure ratio of short feet (t/m2)		10	10	11	11.1	12.8	14.1	15.2	17.2	17.8	19.3	
Piling power (KW)		30	44	44	67	67	74	104	104	104	111
Crane power (KW)		18.5	22	22	30	30	30	30	30	30	37
		Length (m)	9.5	12.2	12.2	13	13	11.2	12	12	12.6	13.4
Dimension an	d weight	Width (m)	3.2	3.0	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.4
of transportatio	on	Height (m)	2.6	2.8	2.8	3.0	3.2	3.2	3.2	3.2	3.2	3.2
		Weight (t)	16	33	39	45	52	55	64	67	72	80
Min working dimension Length (m) Width (m)		Length (m)	9.5	12.2	12.2	1/4	13	13	13	13.8	14.5	14
		4.4	6.2	6.2	6.8	7.6	7.6	8.5	8.5	8.5	8.8	





Clamping box



New type clamping box with auto adjustable clamper devices prevent the concrete pile from damage, and ensure high reliability and low troubleshooting of clamping box. The service lives of clamping jaws have been prolonged at least twice after heat treatment technology was done.



Stationary type side & corner piling structure

Upright stationary type side & corner piling structure enable the piling pressure of side piling reach to 70% central piling pressure, which effectively ensure pile perpendicular. Moreover, the machine is easy to transportation and assembly.

Comfortable cabin with easily operational control board



Sub - constant power pile-pressing system.





Model parameter	ZYB120	
Max pile driving force (tf	120	
Max oil pressure of the h	20	
Max theoretic piling spec	ed (m/min)	3.7
Grades of pile driving		2
Pile driving stroke (m)		2.0
Longitudinal pace (m)		2
Horizontal pace (m)		0.5
One angle range (°)		11
Lifting stroke (m)	1.1	
	Min quare pile	F200
Dila atau dan d	Max quare pile	F300
Pile standard	Min tube pile	
	Max tube pile	
Min side piling space (m	0.7	
Side and corner pile driv	60	
Max lift weight (t)	5	
Contact area pressure ra	10	
Contact area pressure ra	10	
Piling power (KW)	30	
Crane power (KW)	18.5	
	Length (m)	9.5
Dimension and weight	Width (m)	3.2
of transportation	Height (m)	2.6
	Weight (t)	16
Min working dimension	Length (m)	9.5
	4.4	





Model parameter	ZYB180	
Max pile driving force	180	
Max oil pressure of th	e hydraulic system (Mpa)	19.5
Max theoretic piling s	peed (m/min)	9.4
Grades of pile driving		4
Pile driving stroke (m))	2.0
Longitudinal pace (m)		2.5
Horizontal pace (m)		0.6
One angle range (°)		14
Lifting stroke (m)		1.1
	Min quare pile	F200
Dile stondord	Max quare pile	F400
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 400
Min side piling space	0.7	
Side and corner pile driving force (tf)		90
Max lift weight (t)	Max lift weight (t)	
Contact area pressure ratio of long feet (t/m2)		10
Contact area pressure	e ratio of short feet (t/m2)	10
Piling power (KW)		44
Crane power (KW)		22
	Length (m)	12.2
Dimension and	Width (m)	3.0
weight of transportation	Height (m)	2.8
	Weight (t)	33
Min working	Length (m)	12.2
dimension	Width (m)	6.2







Model parameter	ZYB240	
Max pile driving force	240	
Max oil pressure of the (Mpa)	20.7	
Max theoretic piling sp	peed (m/min)	9.4
Grades of pile driving		4
Pile driving stroke (m)		2.0
Longitudinal pace (m)		2.5
Horizontal pace (m)		0.6
One angle range (°)		14
Lifting stroke (m)		1.1
	Min quare pile	F200
	Max quare pile	F400
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 400
Min side piling space	0.7	
Side and corner pile d	120	
Max lift weight (t)		8
Contact area pressure (t/m2)	11	
Contact area pressure (t/m2)	11	
Piling power (KW)		44
Crane power (KW)		22
	Length (m)	12.2
Dimension and	Width (m)	3.0
weight of transportation	Height (m)	2.8
	Weight (t)	39
Min working	Length (m)	12.2
dimension	Width (m)	6.2





Model parameter	ZYB320		
Max pile driving force (320		
Max oil pressure of the (Mpa)	20.7		
Max theoretic piling sp	eed (m/min)	8.6	
Grades of pile driving		4	
Pile driving stroke (m)		1.8	
Longitudinal pace (m)		3.0	
Horizontal pace (m)		0.7	
One angle range (°)		14	
Lifting stroke (m)	1.1		
	Min quare pile	F300	
	Max quare pile	F400	
Pile standard	Min tube pile	¢ 300	
	Max tube pile	¢ 400	
Min side piling space (0.8		
Side and corner pile dr	Side and corner pile driving force (tf)		
Max lift weight (t)	12		
Contact area pressure (t/m2)	11.1		
Contact area pressure (t/m2)	11.1		
Piling power (KW)		67	
Crane power (KW)	30		
	Length (m)	13	
Dimension and weight	Width (m)	3.2	
of transportation	Height (m)	3.0	
	Weight (t)	45	
Min working	Length (m)	13	
dimension	Width (m)	6.8	





Model parameter	ZYB420	
Max pile driving force	420	
Max oil pressure of the (Mpa)	21	
Max theoretic piling s	speed (m/min)	9.2
Grades of pile driving	9	4
Pile driving stroke (m	n)	1.8
Longitudinal pace (m	n)	3.0
Horizontal pace (m)		0.7
One angle range (°)		14
Lifting stroke (m)		1.1
	Min quare pile	F300
Pile standard	Max quare pile	F500
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 500
Min side piling space	1.0	
Side and corner pile	210	
Max lift weight (t)	12	
Contact area pressure ratio of long feet (t/m2)		11.6
Contact area pressur	12.8	
Piling power (KW)		67
Crane power (KW)		30
	Length (m)	13
Dimension and	Width (m)	3.4
weight of transportation	Height (m)	3.2
	Weight (t)	52
Min working	Length (m)	13
dimension	Width (m)	7.6





Model parameter	ZYB500	
Max pile driving force (500	
Max oil pressure of the (Mpa)	25	
Max theoretic piling spe	eed (m/min)	9.2
Grades of pile driving		4
Pile driving stroke (m)		1.8
Longitudinal pace (m)		3.5
Horizontal pace (m)		0.7
One angle range (°)		14
Lifting stroke (m)	1.1	
	Min quare pile	F300
	Max quare pile	F500
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 500
Min side piling space (r	1.0	
Side and corner pile dr	250	
Max lift weight (t)		16
Contact area pressure (t/m2)	12.8	
Contact area pressure (t/m2)	14.1	
Piling power (KW)	74	
Crane power (KW)	30	
	Length (m)	11.2
Dimension and weight	Width (m)	3.4
of transportation	Height (m)	3.2
	Weight (t)	55
Min working	Length (m)	13
dimension	Width (m)	7.6





Model parameter	ZYB600	
Max pile driving for	600	
Max oil pressure of (Mpa)	the hydraulic system	24
Max theoretic piling	speed (m/min)	11.5
Grades of pile drivir	ng	4
Pile driving stroke (m)	1.8
Longitudinal pace (m)	3.5
Horizontal pace (m))	0.7
One angle range (°))	12
Lifting stroke (m)		1.1
	Min quare pile	
B:1	Max quare pile	F500
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 600
Min side piling space	1.1	
Side and corner pile	300	
Max lift weight (t)		16
Contact area pressure ratio of long feet (t/m2)		12.5
Contact area pressure ratio of short feet (t/m2)		15.2
Piling power (KW)		104
Crane power (KW)	30	
	Length (m)	12
Dimension and	Width (m)	3.4
weight of transportation	Height (m)	3.2
	Weight (t)	64
Min working	Length (m)	13
dimension	Width (m)	8.5





Model parameter	ZYB700	
Max pile driving force	700	
Max oil pressure of the (Mpa)	24.5	
Max theoretic piling sp	peed (m/min)	9.4
Grades of pile driving		4
Pile driving stroke (m)		1.8
Longitudinal pace (m)		3.5
Horizontal pace (m)		0.7
One angle range (°)		12
Lifting stroke (m)		1.1
	Min quare pile	F300
	Max quare pile	F500
Pile standard	Min tube pile	¢ 300
	Max tube pile	¢ 600
Min side piling space	1.1	
Side and corner pile d	350	
Max lift weight (t)		16
Contact area pressure (t/m2)	13.7	
Contact area pressure (t/m2)	17.2	
Piling power (KW)		104
Crane power (KW)		30
	Length (m)	12
Dimension and	Width (m)	3.4
weight of transportation	Height (m)	3.2
	Weight (t)	67
Min working	Length (m)	13.8
dimension	Width (m)	8.5







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