



Apile Foundation Equipment

GAFT Pile Machine



# Apile Foundation Equipment CO.,Ltd. GAFT Pile Machine CO.,Ltd.

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# History

The brand AFE (Apile Foundation Equipment CO., Ltd.) is a professional specialist foundation engineering equipment and piling tools research and development, production, trade in one company. Established in 2003 by Mingyou Yang senior engineer. The initial main activity was the production of piling tools for Sanyi, Sunward, XCM, Zoomlin, Yutong etc rotary drilling rig. Then we started manufacturing Casing Oscillator and its accessories (double or single wall casing, chisel and grab etc.). After more than 20 years' experience in the drilling and foundation industry, Mingyou Yang wanted to deepen and improve his personal birth to the current special drilling rigs. Now famous and approved all around the world.

Our casing drilling and solid Mixing equipment is likely to be the gist of civil foundation works, and Multiple processes matching with the rotary drilling rig produced by our team shall be always enough to enhance the competitiveness of your esteemed company. Such efforts have built up monolithic trust among our clients and led us to international market on the basis of top-notch technology and years of experience in the field.

AFE has signed numerous partnerships with not only domestic professional civil contractors but also manifold overseas businesses in Asia including but not limited to China Hong Kong, Singapore, Indonesia, Malaysia and India. Furthermore, we are building a solid foundation to boost our revenue and to grow into an enterprise of middle standing through active marketing activities to advance to global market including Middle East, Africa, Central and South America, Oceania, North America and Russia.

We are convinced that we can be the world best foundation equipment manufacturer under incessant innovations on the basis of expansion of R&D investment and development of new eco-friendly equipment.



# Factory workeshop





# Pile Equipment

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# Pile Foundation Equipment

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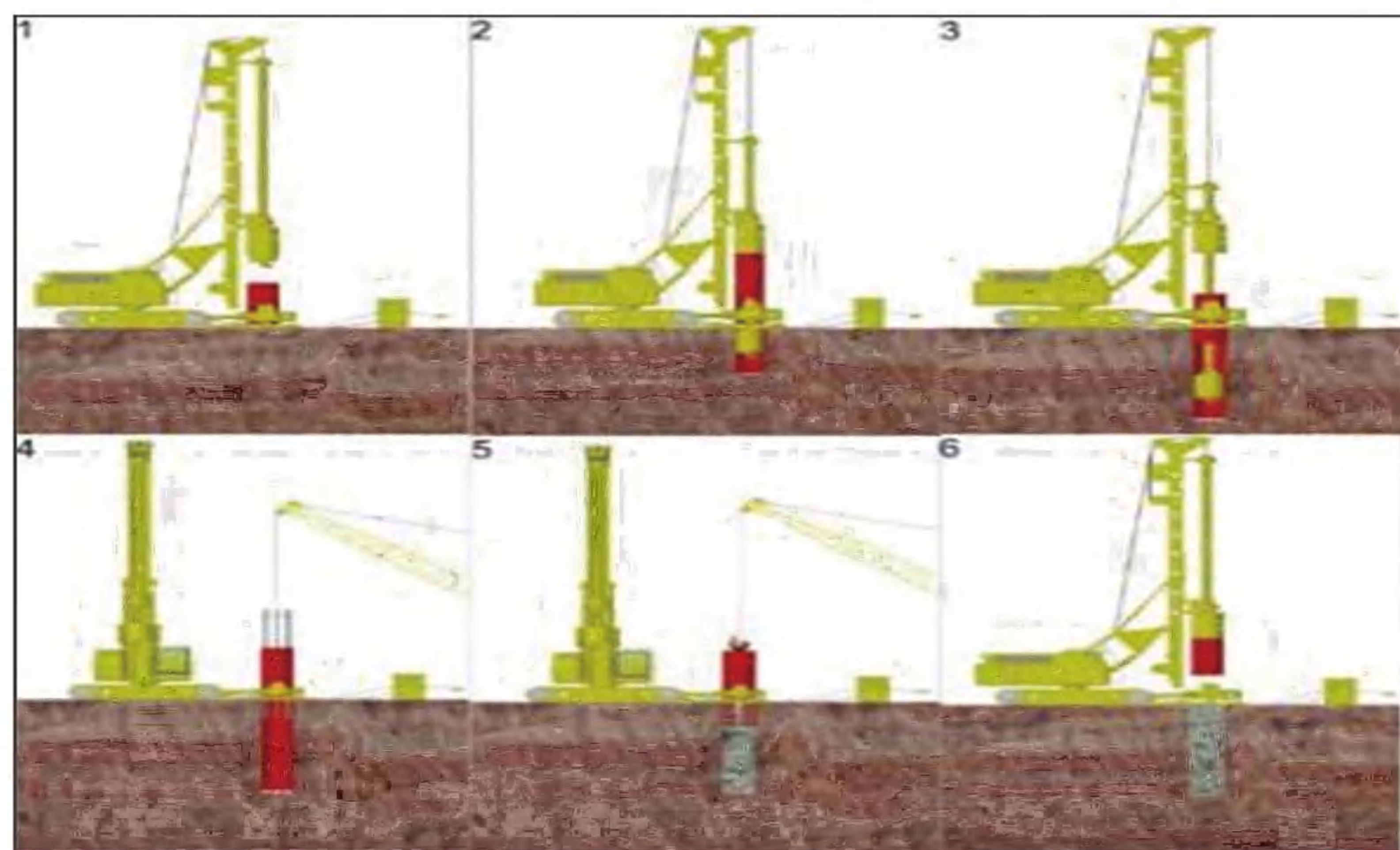
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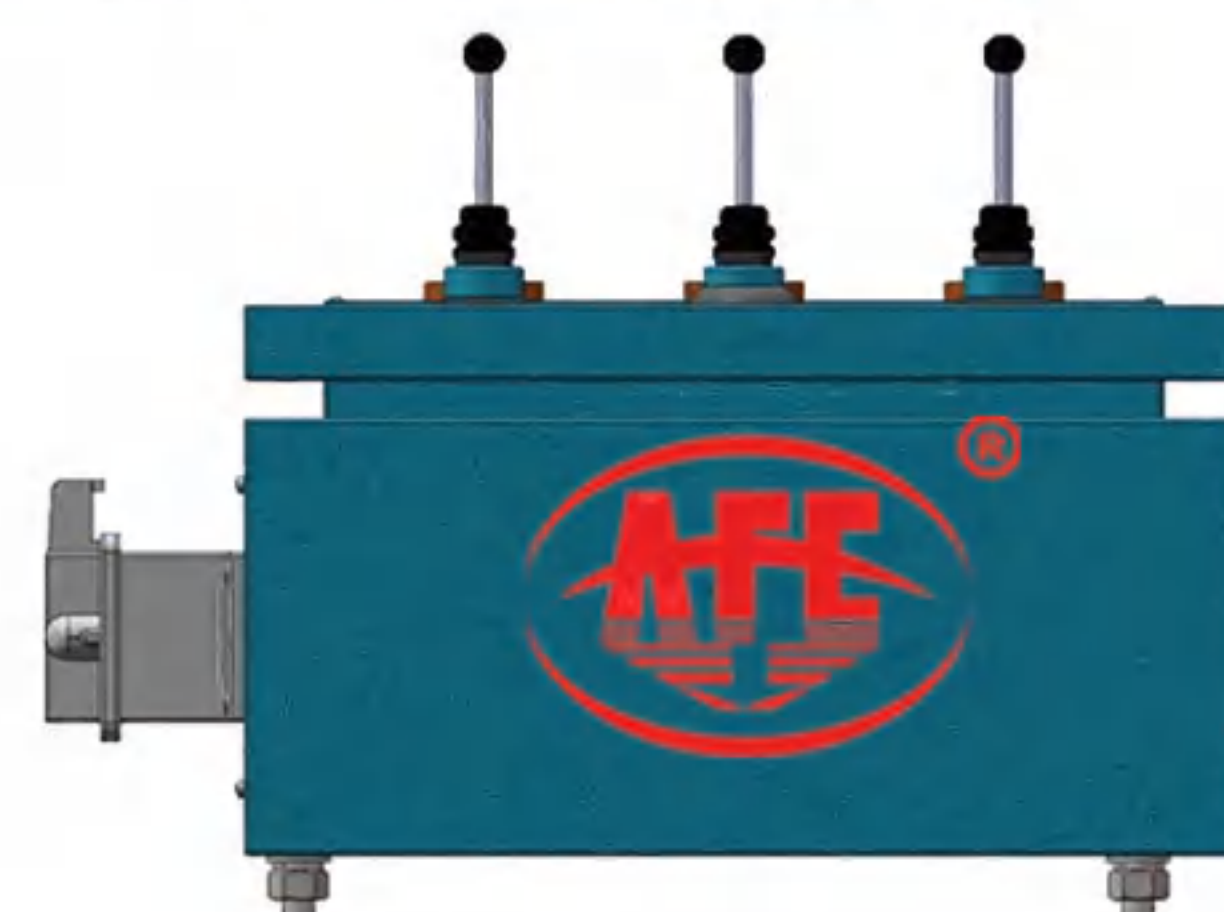
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## AFEXWX Casing Oscillator for Rotary drilling rig



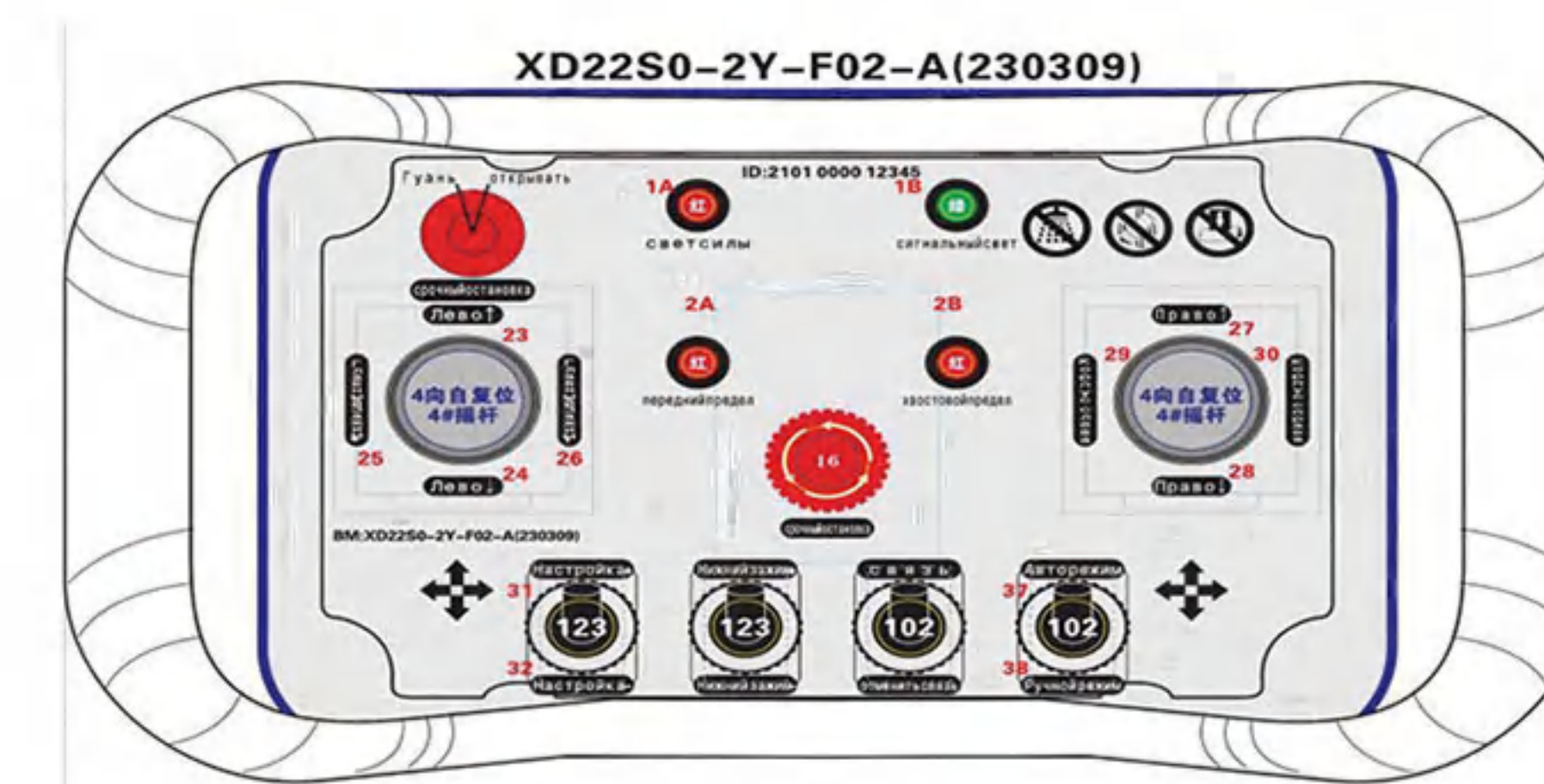
AFEXWX Casing Oscillator for Rotary drilling rig



Cable operation table



Wireless Main Remote Control



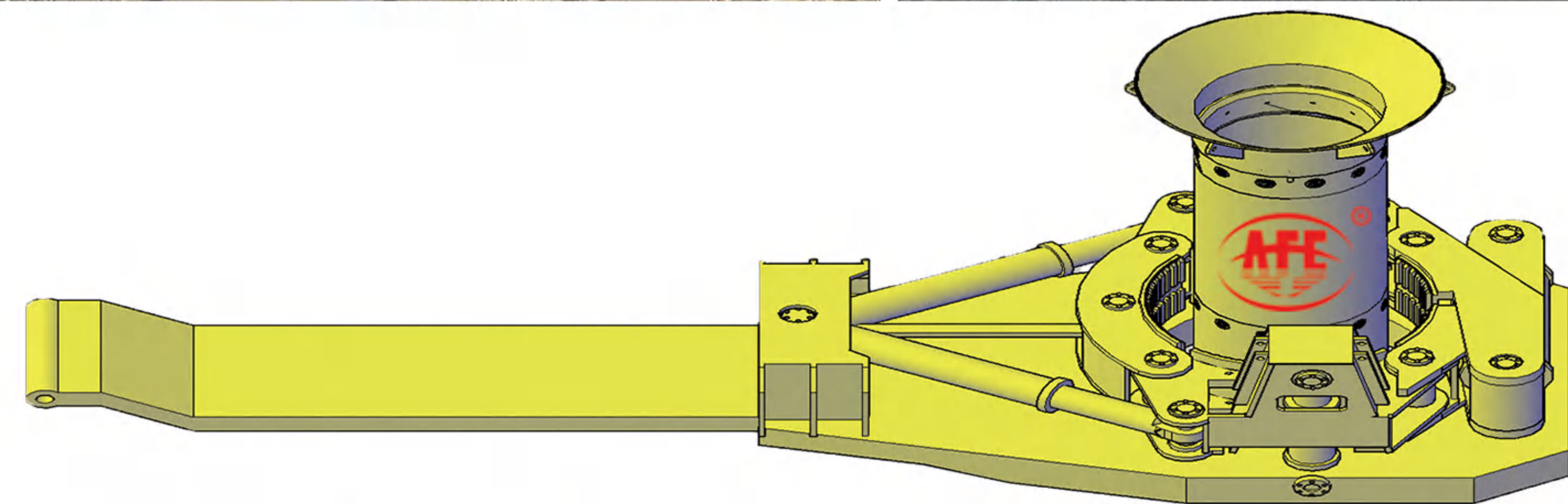
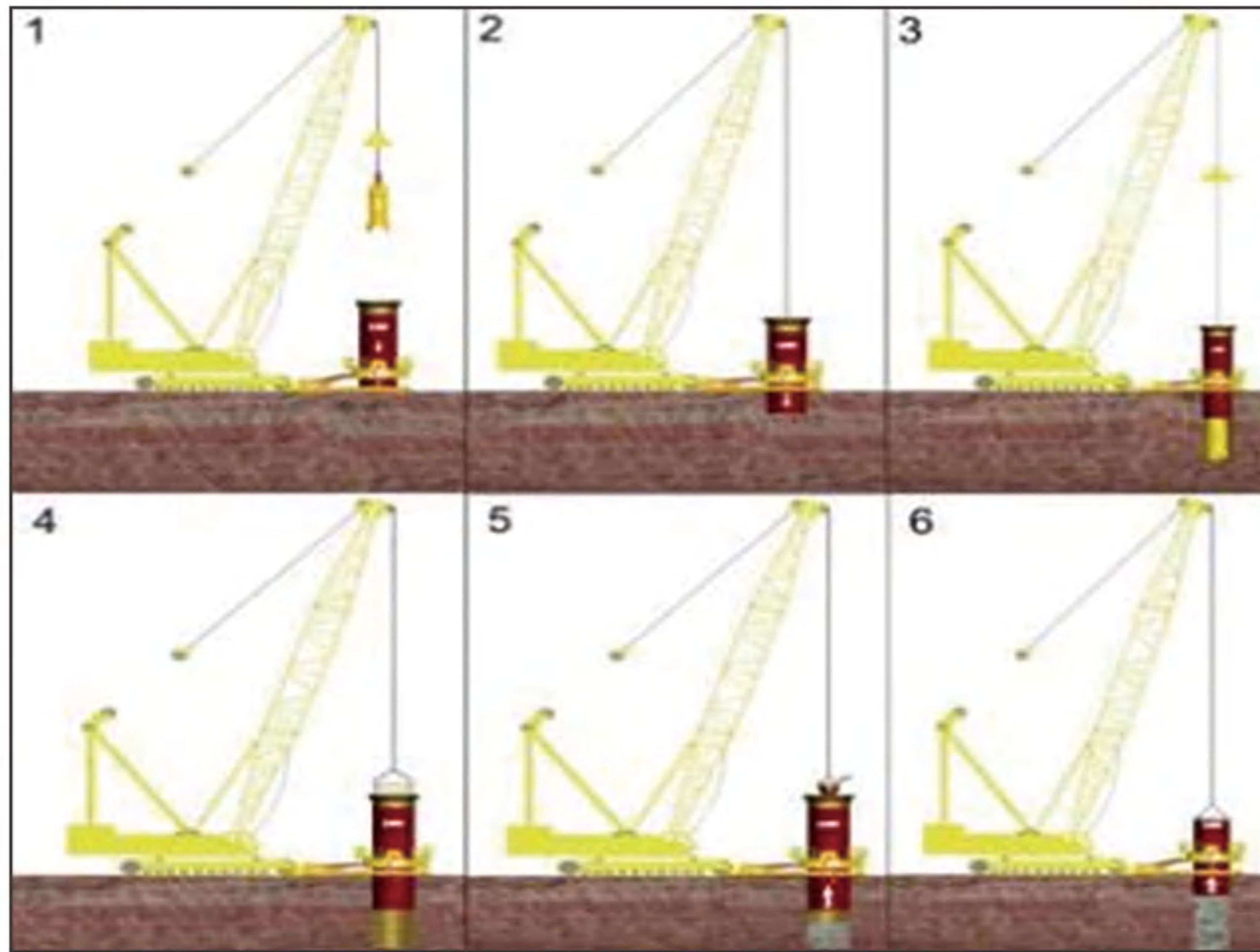
Model		Max. Casing diameter (mm)	Max. Oscillator Torque (KN.m)	Max. Lifting Force (KN)	Lifting Stroke (mm)	Max. Clamping Force (KN)	Rotation angle (°)	Max. working pressure (Bar)	Weight (approx.) (T)	Outline dimension (LxWxH)(mm)
AFEXWX1000	HL	Φ1000	1060	1200	500	900	26	320	8	3330*2080*1380
	HD		1550	1800	500	1100			10	3500*2080*1420
AFEXWX1200	HL	Φ1200	1550	1800	500	1100			13	3730*2100*1450
	HD		2337	2450	500	1220			15	3870*2100*1450
AFEXWX1500	HL	Φ1500	2337	2450	500	1220			17	4420*2800*1500
	HD		2500	3240	500	1470			20	4450*2800*1650
AFEXWX1800	HL	Φ1800	2700	3500	500	1800			27	5070* 2900*1650
	HD		3400	4000	500	2150			30	5240* 2950*1650
AFEXWX2000	HL	Φ2000	4100	4000	500	2150			34	5600*3100*1700
	HD		5000	4800	500	2500			38	5850*3100*1700
AFEXWX2500	HL	Φ2500	6250	5600	500	2800			45	6950*3150*1800
	HD		7500	7400	500	3500			49	7100*3200*1800
AFEXWX3000	HL	Φ3000	8700	8900	500	4000			56	9000*4000*2200
	HD		9800	9800	500	4500			75	9780*4000*2200



# Casing drilling equipment



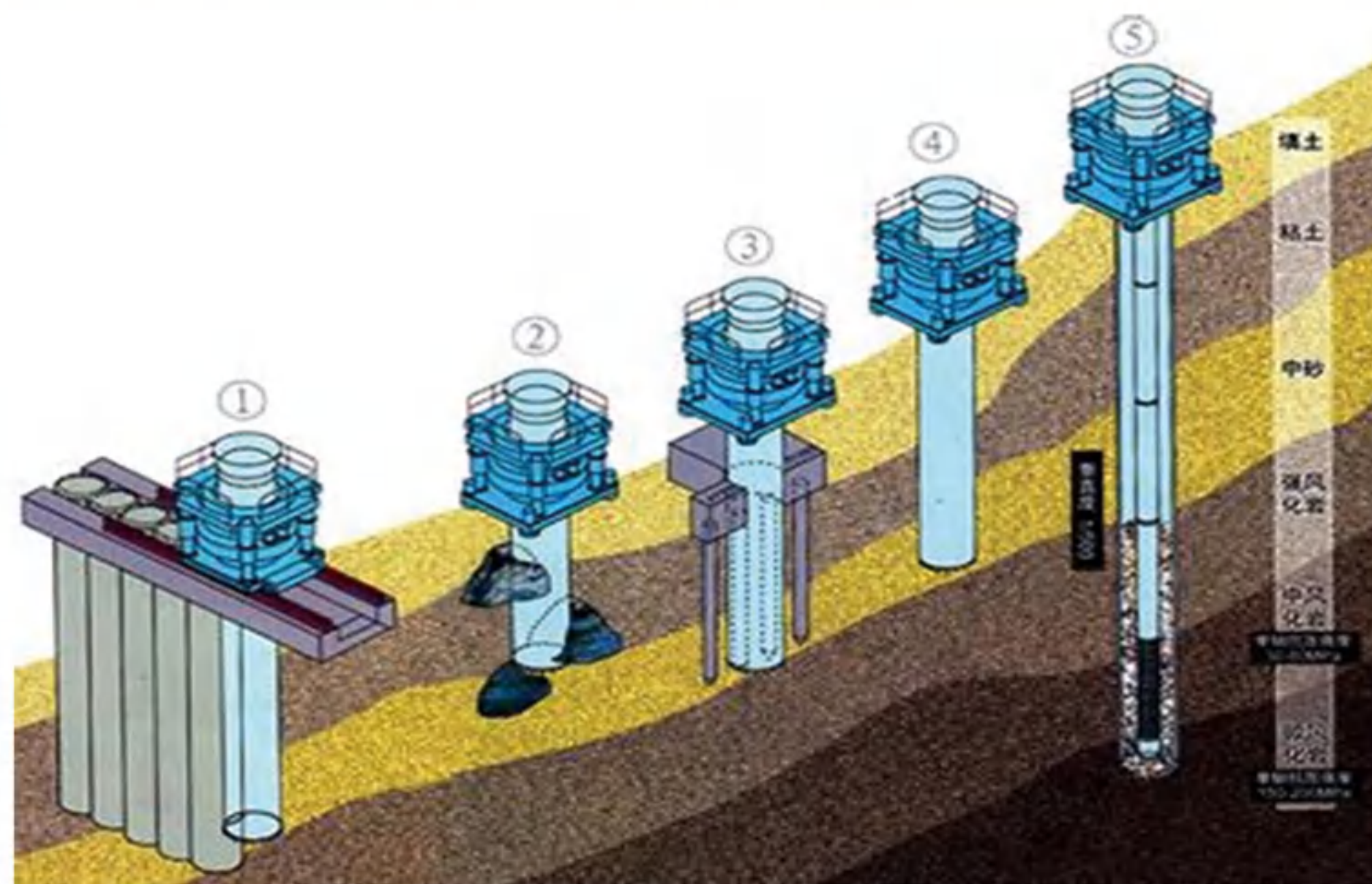
## AFECZX Casing Oscillator for Crawler Crane



Model	MAX. Casing diameter (mm)	MAX. Oscillator Torque (KN.m)	MAX. Lifting Force (KN)	Lifting Stroke (mm)	MAX. Clamping Force (KN)	Rotation angle (°)	MAX. working pressure (Bar)	Weight (approx.) (T)	outline dimension (LxWxH)(mm)
AFECZX1200	Φ1200	2100	2280	600	1320	26	320	15	6500x2250x1800
AFECZX1500	Φ1500	3200	2500	600	1800			24	6500x2850x1850
AFECZX2000	Φ2000	4410	3690	600	2410			32	7500x3200x1900
AFECZX2200	Φ2200	4980	4000	600	3100			35	7500x3400x2050
AFECZX2500	Φ2500	9800	4820	600	3780			42	8500x4000x2600
AFECZX3000	Φ3000	12000	9000	600	5100			64	9800x4000x2650
AFECZX3300	Φ3300	21000	11000	600	5900			85	10470x5200x3000
AFECZX3500	Φ3500	24800	11000	600	5900			90	10700x5400x3000
AFECZX3800	Φ3800	28500	13000	600	5900			98	10700x5600x3100
AFECZX4000	Φ4000	30000	14500	600	6400			105	10700x5800x3100



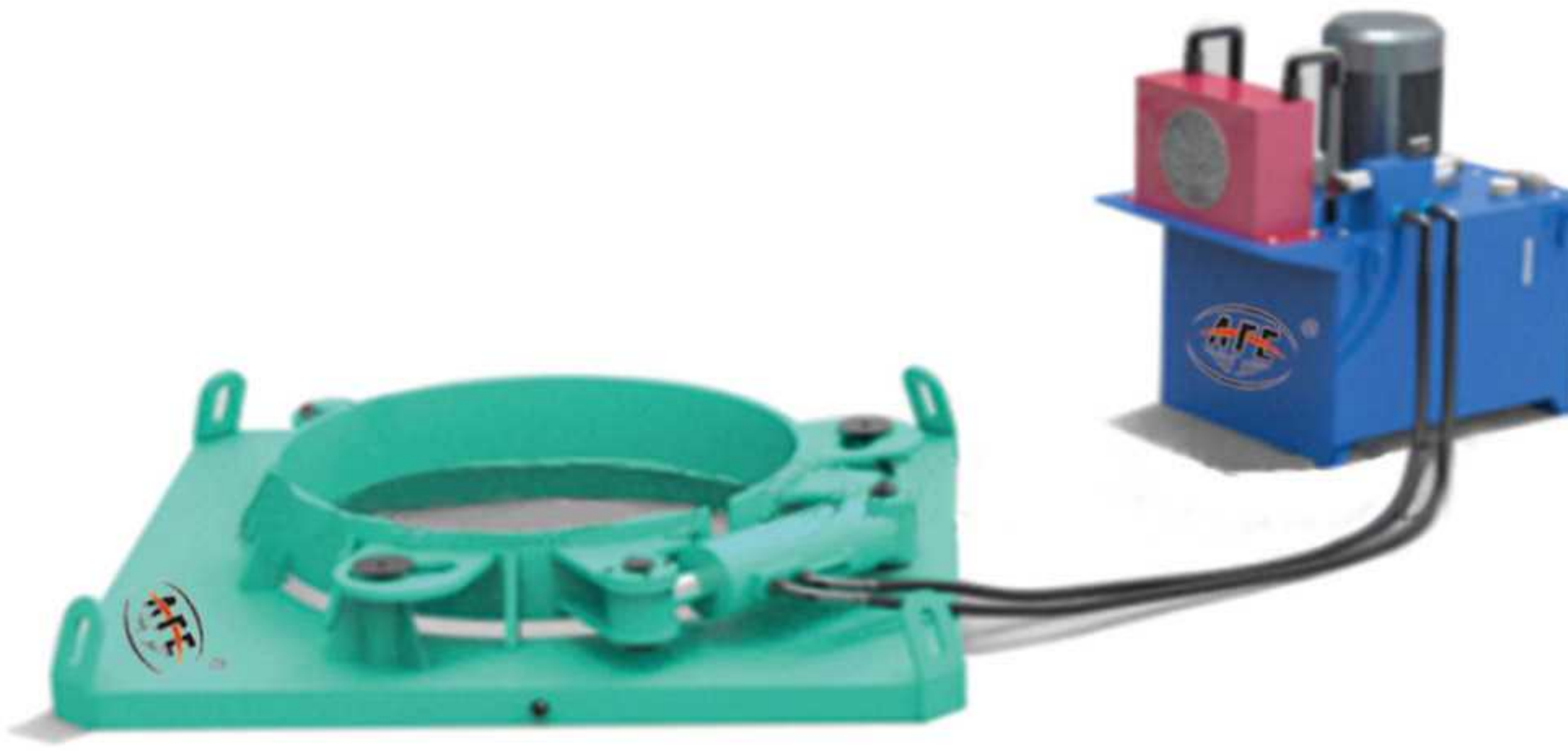
## Casing Rotator



Model	Max. Casing diameter (mm)	Max. Rotary Torque (KN.m)	Rotating Speed (rpm)	Max. Lower pressure of sleeve (KN)	Pulling force sleeve (KN)	Pressure pulling stroke (mm)	Engine Model	Engine Power (KW/rpm)	Control Model	Weight (T)
AFECR150	Φ800~Φ1500	1900/980/560	1.0/1.7/2.9	360	2580	400	QSC8.3-C260	205/1800	Operating room for manual operation	68
AFECR170	Φ800~Φ1700	1880/970/549	1.1/1.7/2.9	360	2650	500	QSC8.3-C260	205/1800	Cable operation	27+6
AFECR200	Φ1000~Φ2000	2950/1750/1020	0.8/1.4/2.2	600+220	3760	750	HINO P11C-UP	257/1850		38+8
AFECR210	Φ1000~Φ2100	3080/1822/1029	1.0/1.6/2.6	600+260	3760	750	HINO P11C-UP	257/1850		45+8
AFECR260	Φ1200~Φ2600	5292/3127/1766	0.6/1.0/1.8	830+350	4560	750	CAT C15	403/1800		53+12
AFECR320	Φ2000~Φ3200	9080/5368/3034	0.4/0.8/1.3	1100	7237	500	QSC8.3-C260	205/1800		75+6
							CAT C15	403/1800	75+12	

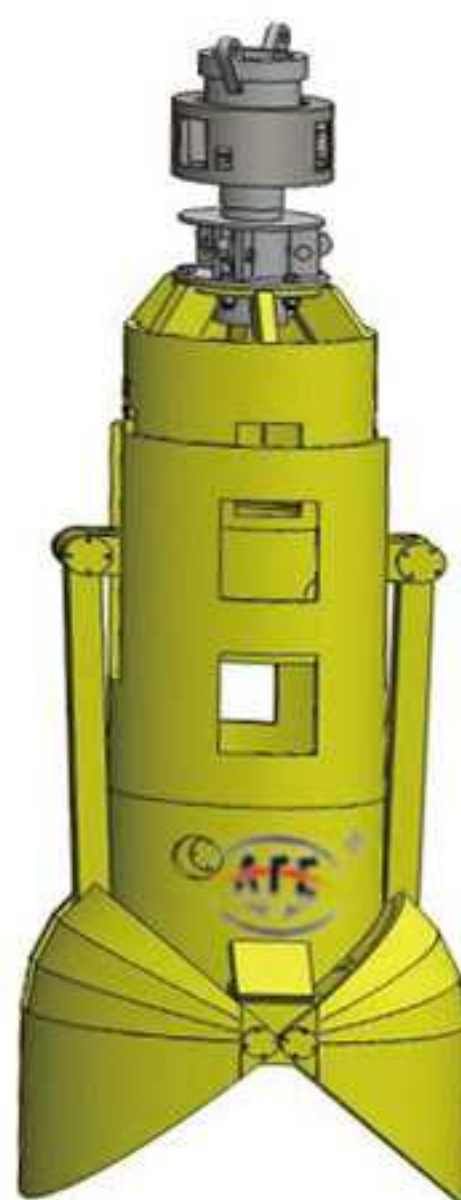
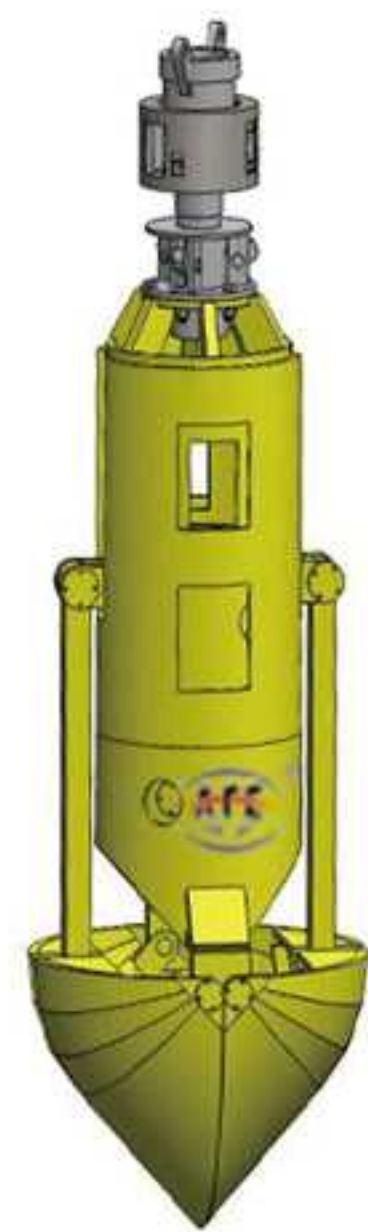


## Ostiole casing holder



Model	AFECH1000	AFECH1200	AFECH1500	AFECH1800	AFECH2000
Max. Casing diameter (Φ mm)	1000	1200	1500	1800	2000
Operation pressure (Bar)	320	320	320	320	320
Max. Clamping Force (KN)	650	900	1270	1650	2100
Kava thickness (mm)	400	400	400	400	400
Operating system (OS)	Wireless remote control	Wireless remote control	Wireless remote control	Wireless remote control	Wireless remote control
Outline dimension (LxWxH)(mm)	1750x1750x700	1750x1750x700	2200x2200x700	2500x2500x700	3000x3000x800
Weight (T)	3.5	4.2	5.3	6.5	8

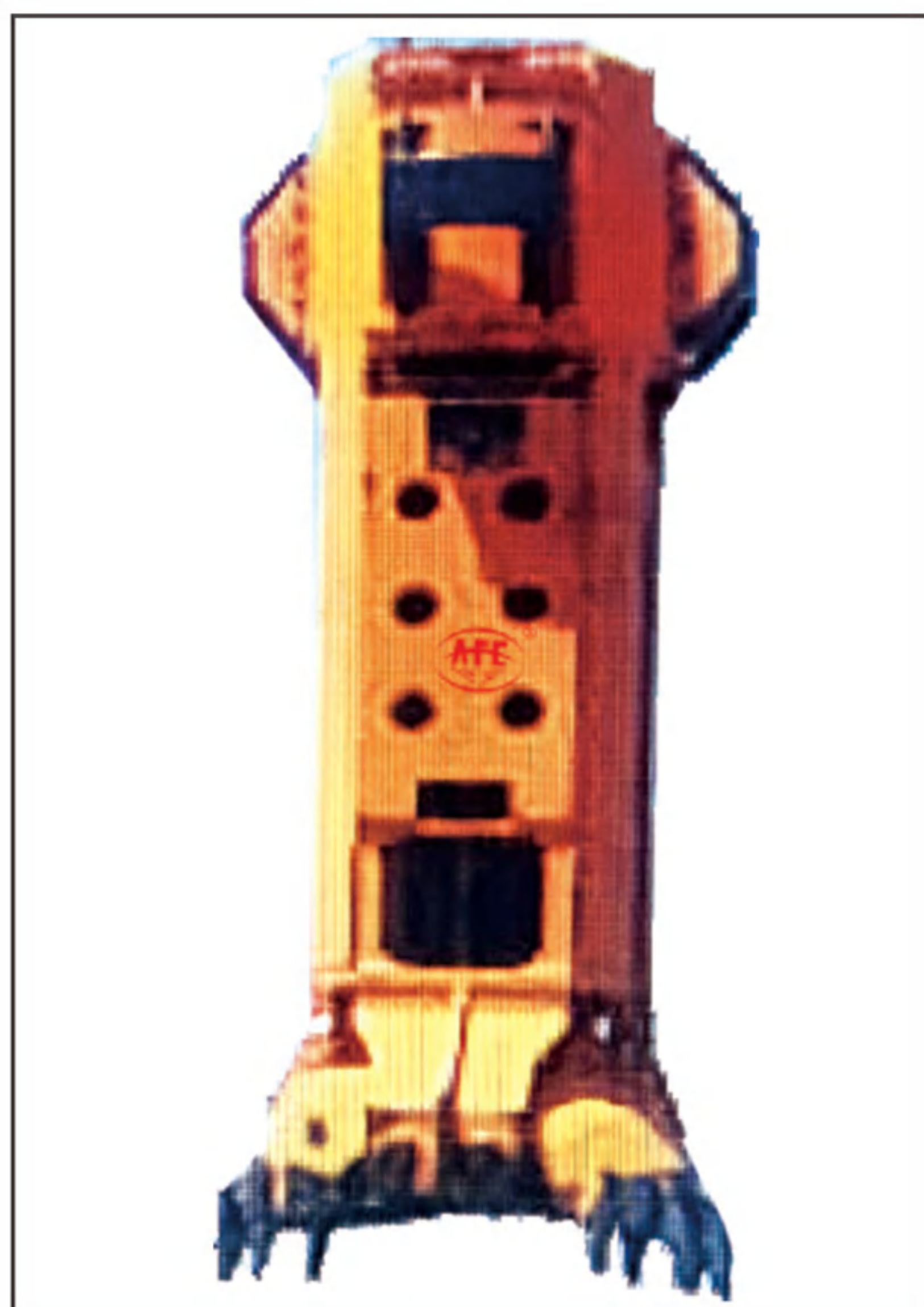
## Hammer Grab



Model	Casing diameter (mm)	Jam capacity (l)	Length (mm)		Weight ( Kg )	
			Single	Double	Single	Double
HG720	Φ 900/Φ 820	120	3324	2255	2130	1730
HG850	Φ 1000/Φ 900	200	3840	3010	3440	2210
HG1150	Φ 1200/Φ 1100	350	3912	3843	4960	2790
HG1350	Φ 1500/Φ 1400	800	5420	4360	7000	6300
HG1600	Φ 1800/Φ 1680	1150	5650	4750	7750	7000
HG1800	Φ 2000/Φ 1880	1400	6200	5100	8650	7850
HG2250	Φ 2500/Φ 2380	1800	6350	5300	13500	12500
HG2750	Φ 3000/Φ 2840	2300	6500	5500	15500	14500



## Spherical Grab



Model	Casing diameter (mm)	Jam capacity (l)	Length (mm)	Weight ( Kg )
SG780	Φ 900/Φ 820	170	4300	5800
SG880	Φ 1000/Φ 920	190	4400	6000
SG1080	Φ 1200/Φ 1120	210	4500	6900
SG1180	Φ 1300/Φ 1220	230	5350	8100
SG1350	Φ 1500/Φ 1400	400	5800	10400
SG1650	Φ 1800/Φ 1680	730	5800	11400
SG1810	Φ 2000/Φ 1880	970	5900	13900
SG2010	Φ 2200/Φ 2080	1450	6000	17000
SG2310	Φ 2500/Φ 2380	2250	6110	18600
SG2580	Φ 2800/Φ 2640	3050	6250	19800
SG2710	Φ 3000/Φ 2840	3900	6350	20400
SG2980	Φ 3200/Φ 3040	4700	7200	28000
SG3170	Φ 3400/Φ 3240	5550	7300	29200
SG3310	Φ 3600/Φ 3440	6800	7400	31000

## Chisel



Model	Casing diameter (mm)	Length (mm)	Weight ( Kg )
CH700	Φ 900/Φ 820	2500	2500
CH800	Φ 1000/Φ 920	2500	3000
CH1000	Φ 1200/Φ 1120	3000	3800
CH1100	Φ 1300/Φ 1220		
CH1300	Φ 1500/Φ 1400	3500	6700
CH1500	Φ 1800/Φ 1680		7730
CH1700	Φ 2000/Φ 1880		8900
CH1900	Φ 2200/Φ 2080		10000
CH2200	Φ 2500/Φ 2380		12500
CH2500	Φ 2800/Φ 2640		13800
CH2700	Φ 3000/Φ 2840		15200
CH2900	Φ 3200/Φ 3040		16800
CH3100	Φ 3400/Φ 3240		19500
CH3300	Φ 3600/Φ 3440		21000



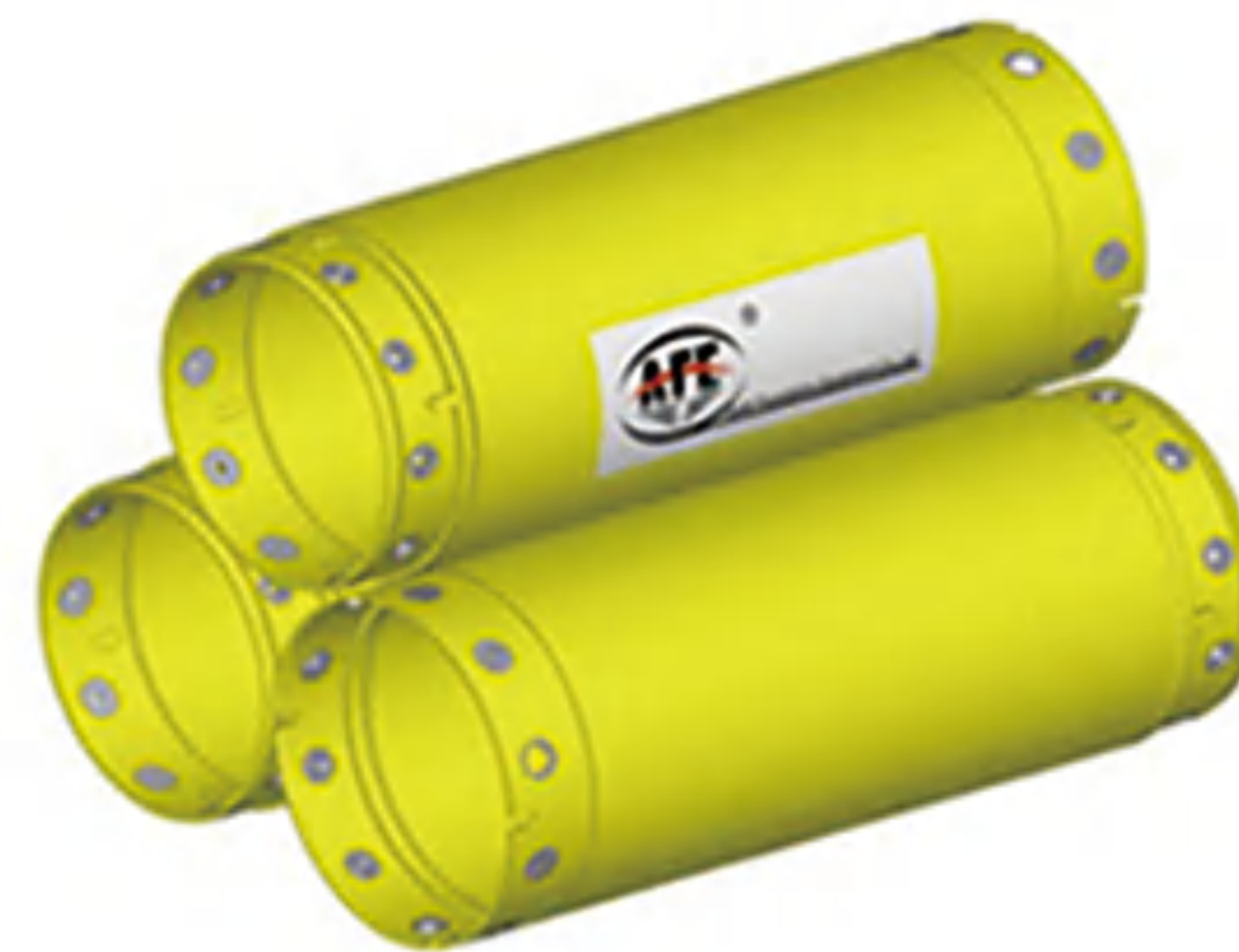
## Casing Tube

### Double wall tube



D1/D2 (Φ mm)	S1 (mm)	S2 (mm)	D (Φ mm)	B(mm)	Weight(Kg)						
					1	2	3	4	5	6	7
600/520	16	8	16	40	433	805	1177	1549	1921	2293	3037
700/620	16	8	16	40	509	945	1381	1817	2253	2689	3561
800/720	16	8	16	40	587	1090	1593	2096	2599	3102	4108
900/820	16	8	16	40	653	1206	1759	2312	2865	3418	4524
1000/920	16	10	14	40	724	1343	1962	2581	3200	3819	5057
1080/1000	16	10	14	40	790	1440	2155	2845	3530	4210	5570
1200/1120	16	10	14	40	870	1620	2365	3120	3870	4610	6110
1500/1400	20	16	14	50	1485	2520	3555	4590	5625	6660	8735
1500/1420	20	12	8	40	1400	2360	3315	4270	5225	6180	8176
1800/1700	20	16	14	50	1910	3505	5085	6675	8270	9865	13055
1800/1680	20	20	20	60	2251	4023	5795	7539	9293	11056	14582
2000/1880	20	20	20	60	2530	4600	6670	8730	10800	12870	17010
2200/2180	20	20	20	60	2785	5065	7350	9635	11920	14205	18775
2500/2380	20	20	20	60	3105	5710	8315	10920	13525	16130	21340
2800/2640	25	25	30	80	4530	8335	12135	15945	19755	23565	31185
3000/2840	25	25	30	80	4940	9015	13090	17170	21250	25330	33490

### Single wall tube



D1/D2(Φ mm)	S (mm)	B(mm)	Weight(Kg)						
			1	2	3	4	5	6	8
600/520	16	40	380	672	993	1255	1546	1838	2421
700/620	16	40	447	789	1131	1473	1815	2157	2841
800/720	16	40	514	906	1298	1690	2082	2474	3258
900/820	16	40	580	1022	1464	1906	2348	2790	3674
1000/920	20	40	640	1133	1626	2119	2612	3150	4091
1080/1000	20	40	690	1190	1720	2260	2820	3350	4420
1200/1120	20	40	860	1600	2340	3080	3820	4560	6030
1500/1400	25	50	1440	2370	3300	4230	5160	6090	7950
1500/1420	25	40	1380	2250	3120	3990	4860	5370	7470
1800/1700	25	50	1720	2830	3950	5070	6190	7310	8990
1800/1680	25	60	1650	2690	3740	4790	5840	6890	9550
2000/1880	30	60	2100	3250	4400	5550	6700	7850	10150
2200/2080	30	60	2190	3430	4670	5910	7150	8390	10870
2500/2380	30	60	2810	4670	6530	8400	10270	12140	15980
2800/2640	30	80	3950	6310	8670	11400	13410	15780	20520
3000/2840	30	80	4320	6850	9390	11930	14470	17010	22090





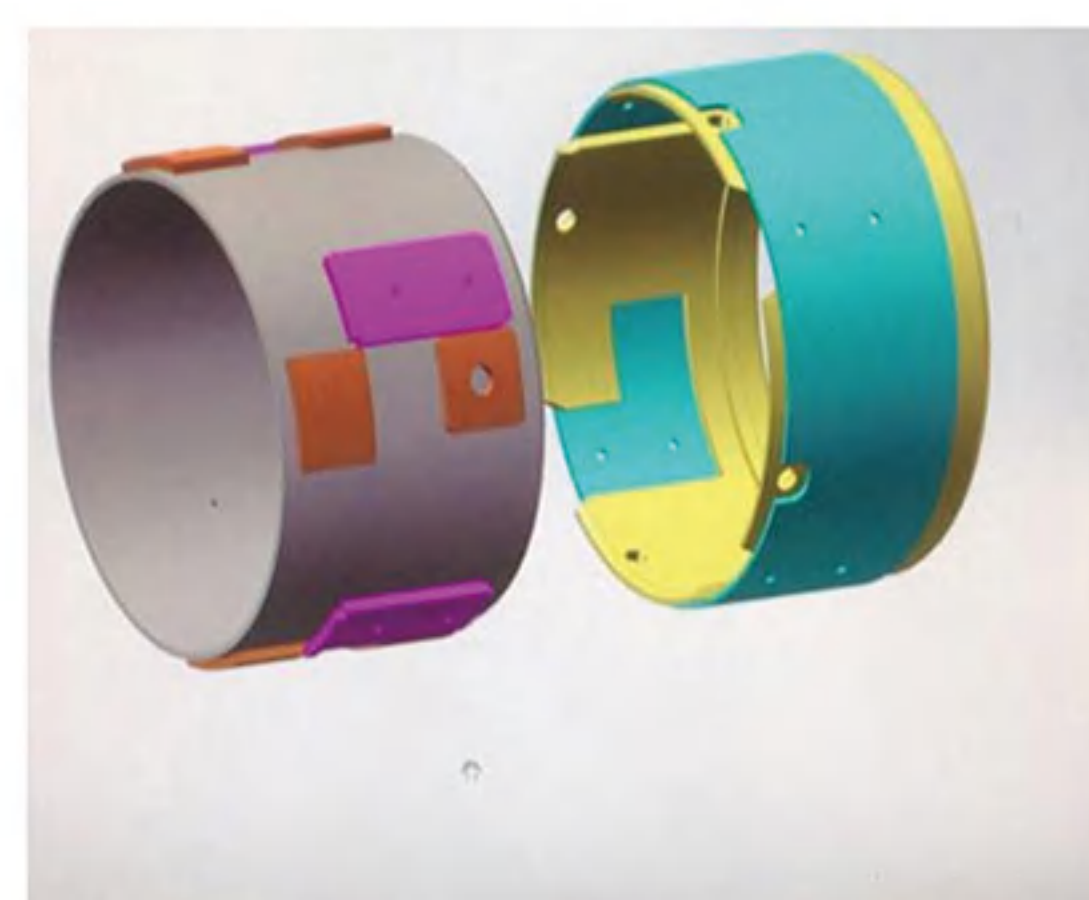
## Casing Joint



Standard type Casing joint



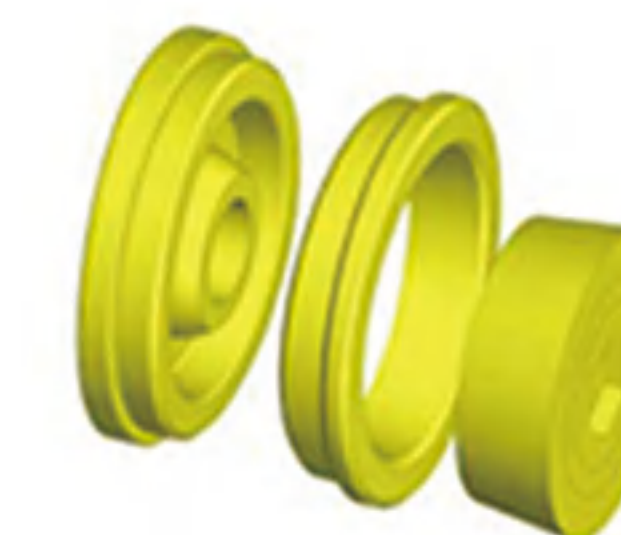
Enhanced type casing joint



Quick type Casing Joint



Tension-type screw connection piece



Tight tight type screw connection piece

## Casing Shoe



D1/D2(Φ mm)	D3 ( Φ mm )	B ( mm )	H ( mm )	Weight ( Kg )	Weld-on T.C. Tip	
					(mm)	Q'ty
600/520	Φ 610	40	510	270	110x100x60/15	18
700/620	Φ 710	40	510	310	110x100x60/15	21
800/720	Φ 810	40	510	360	110x100x60/15	24
900/820	Φ 910	40	510	410	110x100x60/15	27
1000/920	Φ 1010	40	510	450	110x100x60/15	30
1080/1000	Φ 1090	40	510	470	110x100x60/15	33
1200/1120	Φ 1210	40	510	550	110x100x60/15	36
1500/1400	Φ 1516	50	510	840	110x100x60/15	48
1500/1420	Φ 1516	40	510	800	110x100x60/15	48
1800/1700	Φ 1816	50	510	1010	110x100x60/15	57
1800/1680	Φ 1816	60	510	1180	110x100x60/15	57
2000/1880	Φ 2016	60	510	1315	110x100x60/15	63
2200/2080	Φ 2216	60	510	1450	110x100x60/15	69
2500/2380	Φ 2516	60	510	1650	110x100x60/15	78
2800/2640	Φ 2816	80	510	2460	110x100x60/15	87
3000/2840	Φ 3016	80	510	2650	110x100x60/15	96



## Intelligent driver head



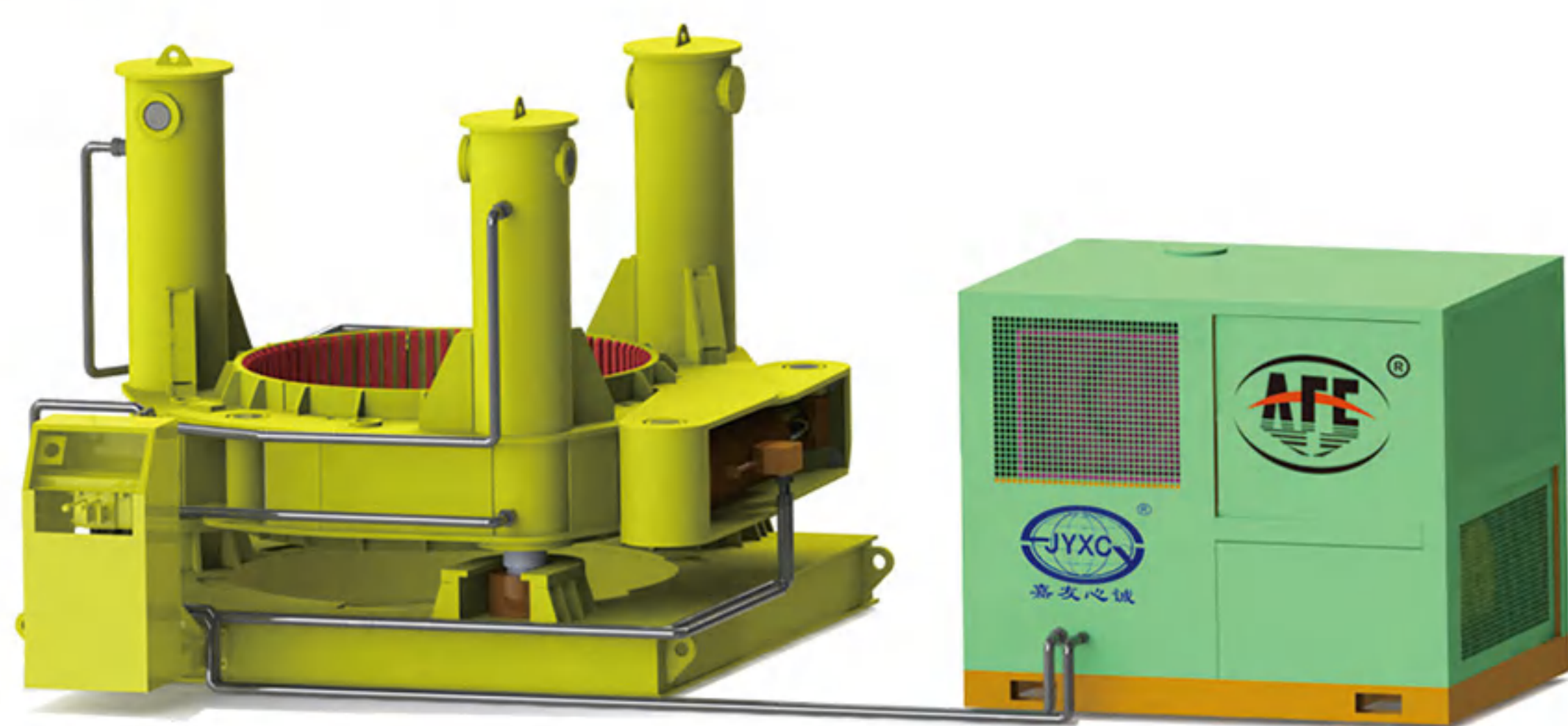
## casing drive



Model	Outer diameter (mm)	Internal diameter (mm)	Thickness (mm)	Thickness tube (mm)	H(mm)	Weight (kg)
620/540	620	540	40	16	1200	985
750/670	750	670	40	16	1200	1150
880/800	880	800	40	16	1200	1380
1000/920	1000	920	40	16	1200	1560
1180/1100	1180	1100	40	20	1200	1790
1200/1120	1200	1120	40	20	1200	2090
1300/1220	1300	1220	40	20	1200	2270
1500/1400	1500	1400	50	25	1200	2480
1800/1700	1800	1700	50	25	1000	2890
2000/1880	2000	1880	60	25	1000	3250
2200/2080	2200	2080	60	30	1000	3480
2500/2380	2500	2380	60	30	1000	3790



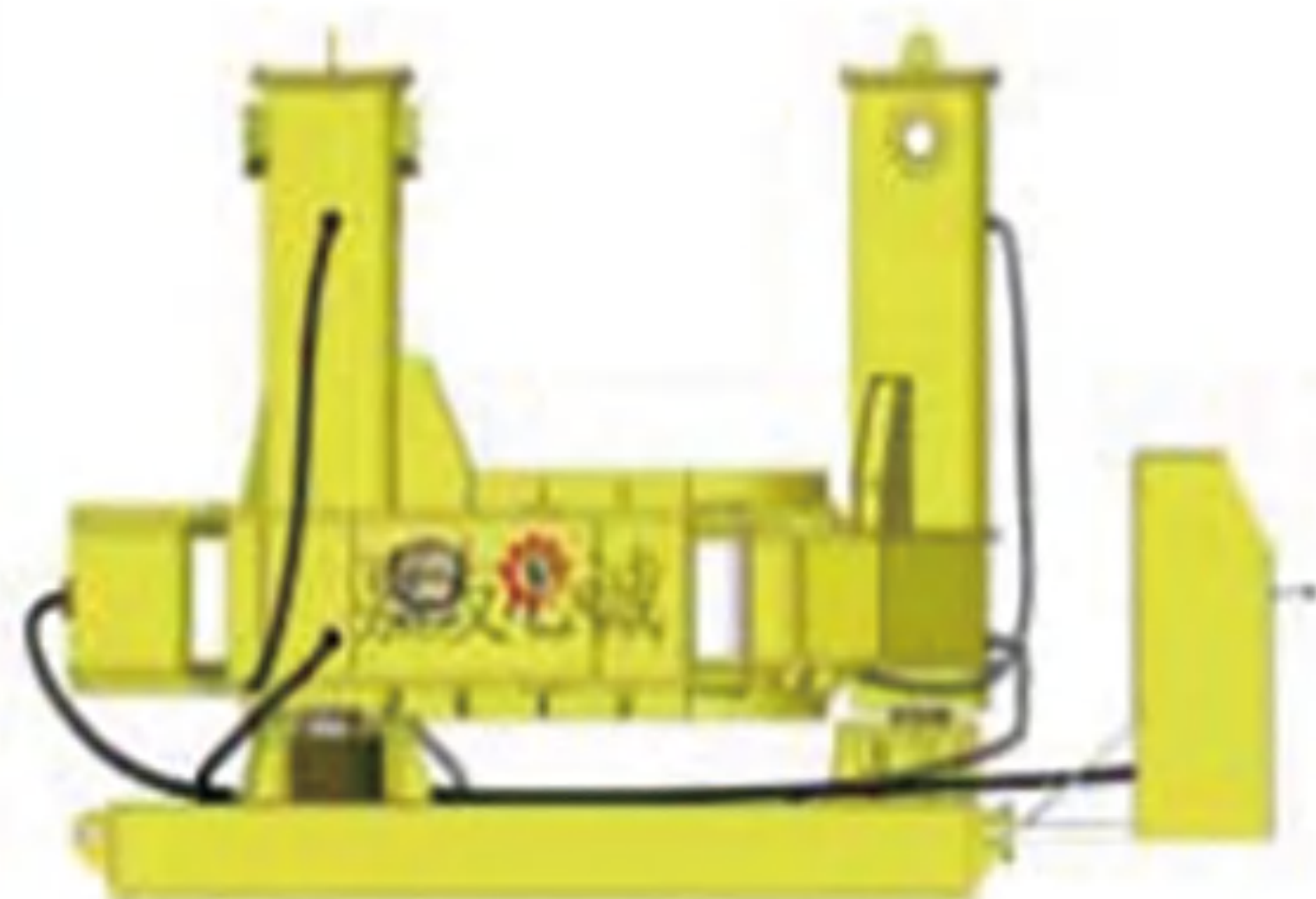
## Pile Extractor



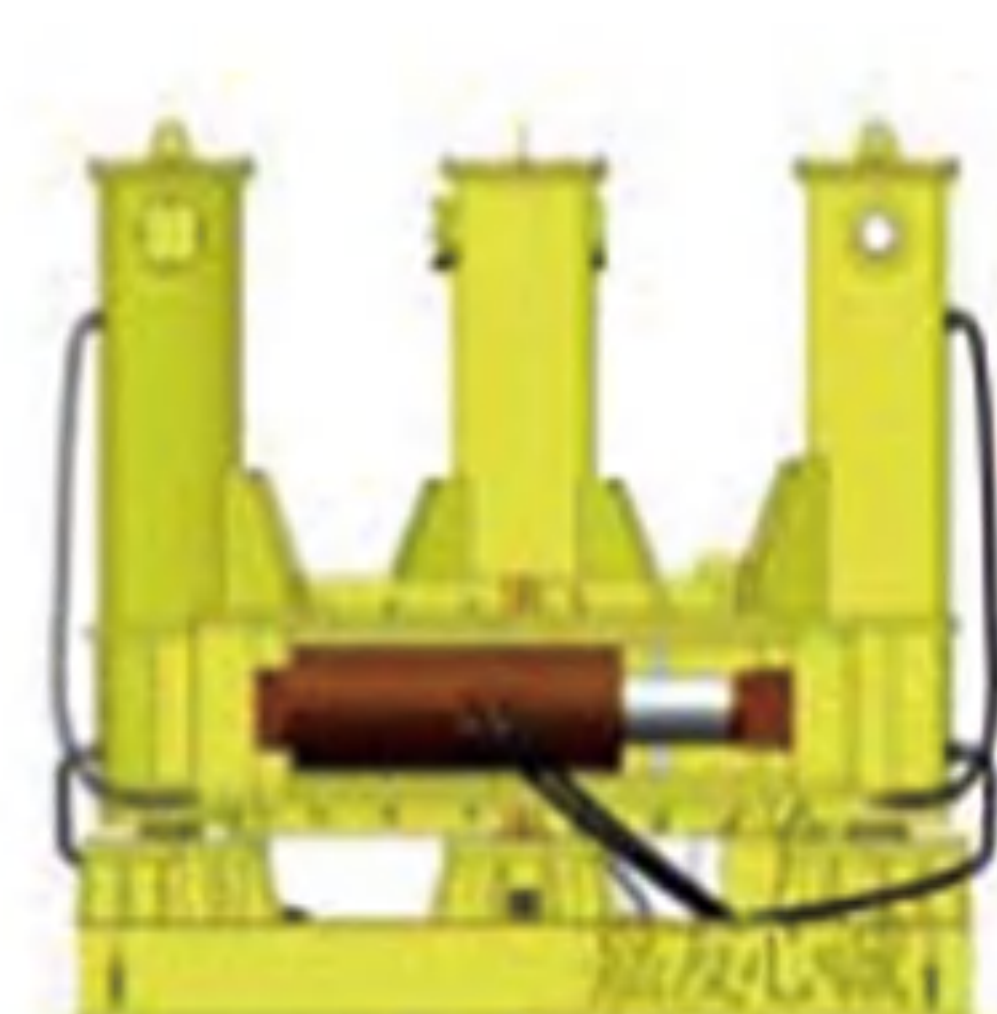
PDT Three-column pile extractor



PDF Four-column pile extractor



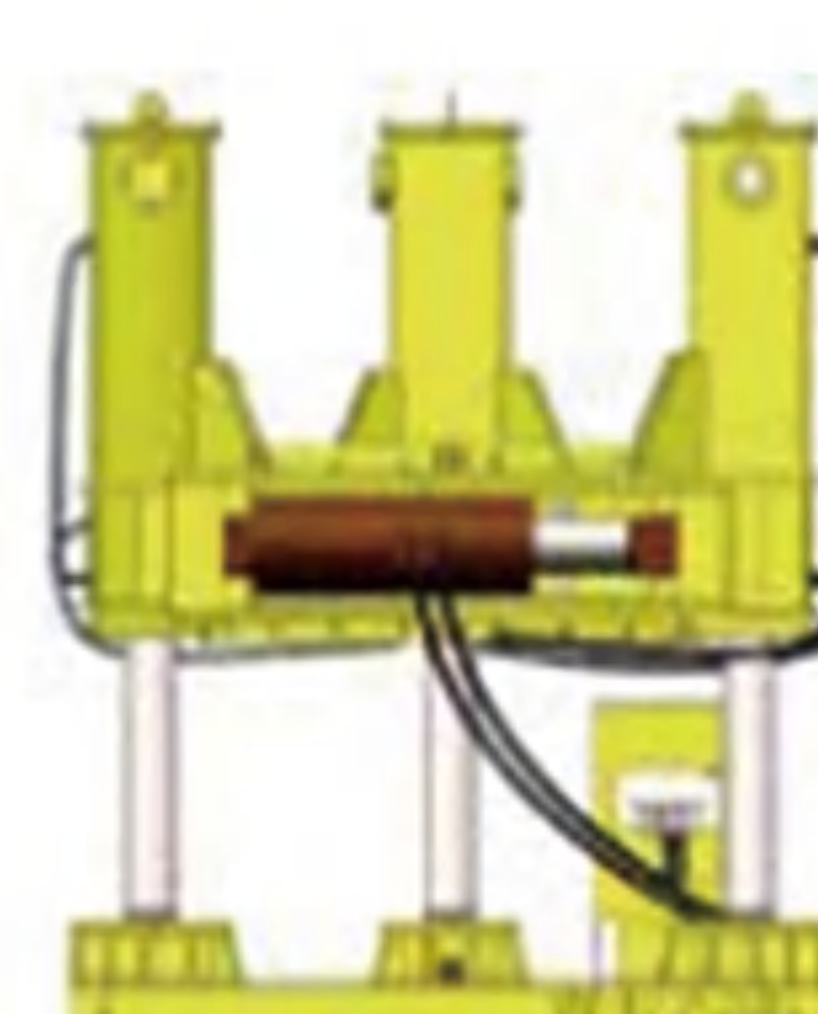
The equipment in place



Clamping casing tube



Pull out the casing

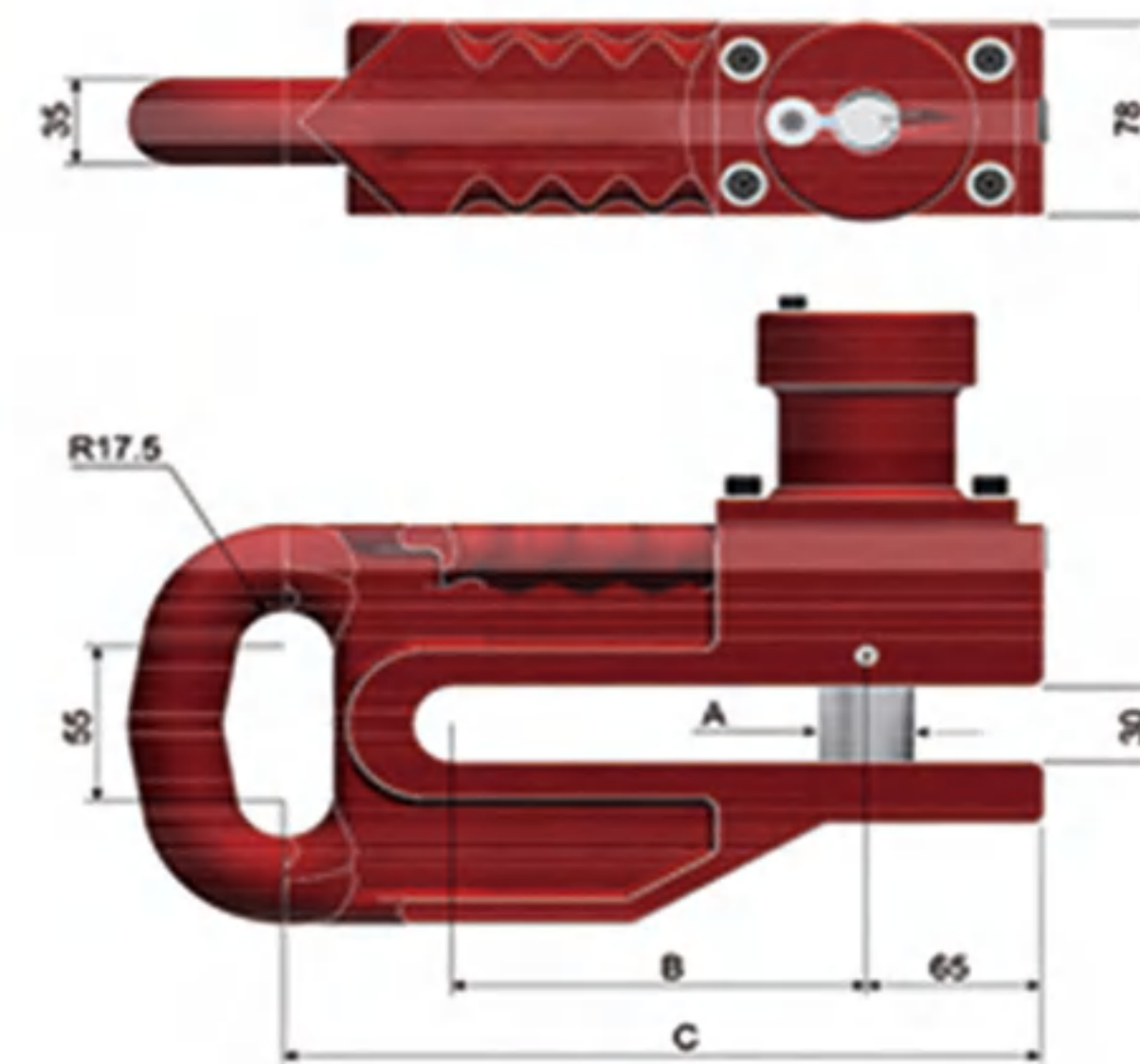
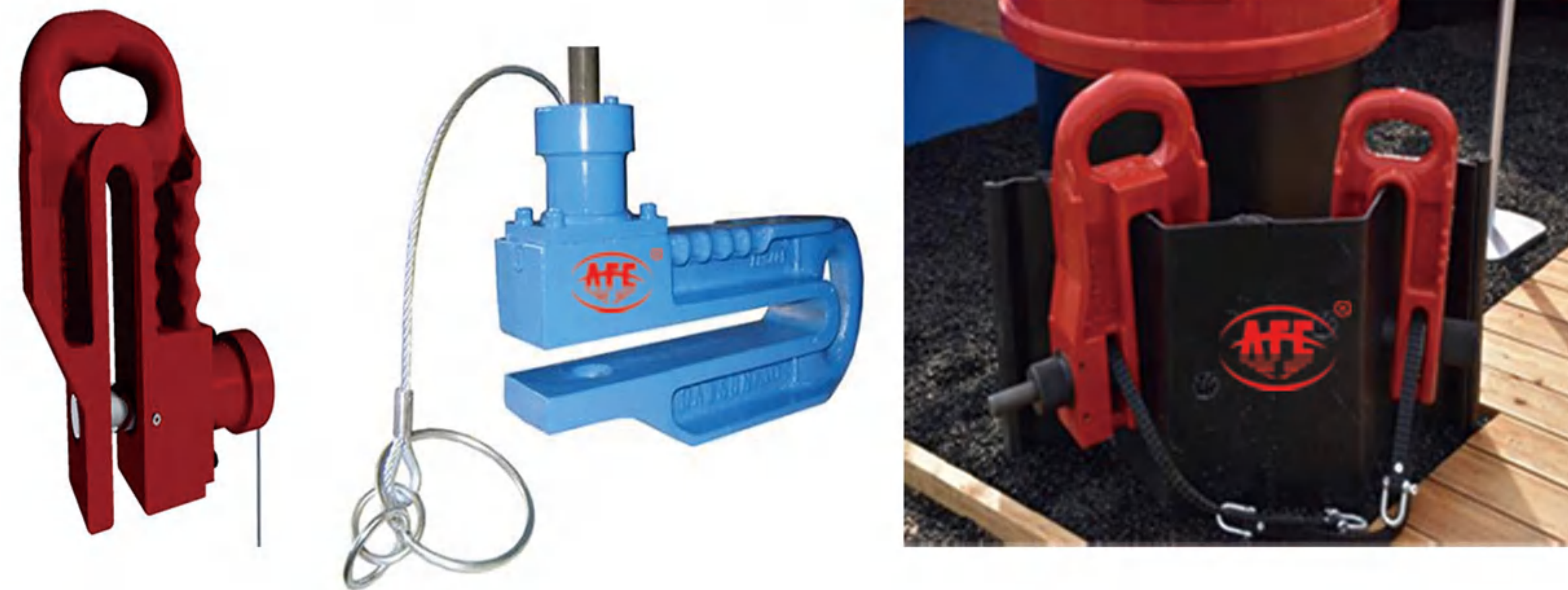


Release the clamp mouth under the fixture and pull it out second time

Model	Max. Casing Diameter (Φ mm)	Max. Operating Pressure (bar)	Lifting Force (KN)	Lifting Stroke (mm)	Clamping Force (KN)	LxWxH(mm)	Weight (Kg)	Operating System
PDT100	1000	320	2820	1000	1140	2080x1720x2150	8100	Manual Control
PDT120	1200	320	2820	1000	1140	2470x2100x2175	8800	Manual Control
PDT130	1300	320	2820	1000	1140	2800x2250x2352	9750	Manual Control
PDT150	1500	320	3420	1000	1470	2942x2700x2352	11800	Manual Control
PDT165	1650	320	3420	1000	1470	2942x2700x2352	14980	Manual Control
PDT200	2000	320	5535	1000	2410	3774x3507x2180	18670	Manual Control
PDF100	1000	320	3760	1000	1140	2080x1720x2150	10800	Manual Control
PDF120	1200	320	3760	1000	1140	2470x2100x2180	11850	Manual Control
PDF165	1650	320	4560	1000	1470	2942x2700x2350	19980	Manual Control
PDF200	2000	320	7380	1000	2410	3570x3774x2500	24900	Manual Control
PDF250	2500	320	9640	1000	3760	4713x4400x2500	27680	Manual Control



## Pile lifting shackle



	Model				
	PLS01	PLS02	PLS03	PLS04	PLS05
Weight (Kg)	17.5	17.5	17.5	21.5	21.5
A	Φ22	Φ28	Φ35	Φ28	Φ35
B	150	150	150	250	250
C	277	277	277	377	377

## Ground connection wall lock pipe top pull Extractor



Model	Pull-off diameter(mm)	Pull out force (T)	Pull stroke(mm)
GLE600	600	300	1200
GLE800	800	400	1200
GLE1000	1000	600	1200
GLE1200	1200	800	1200

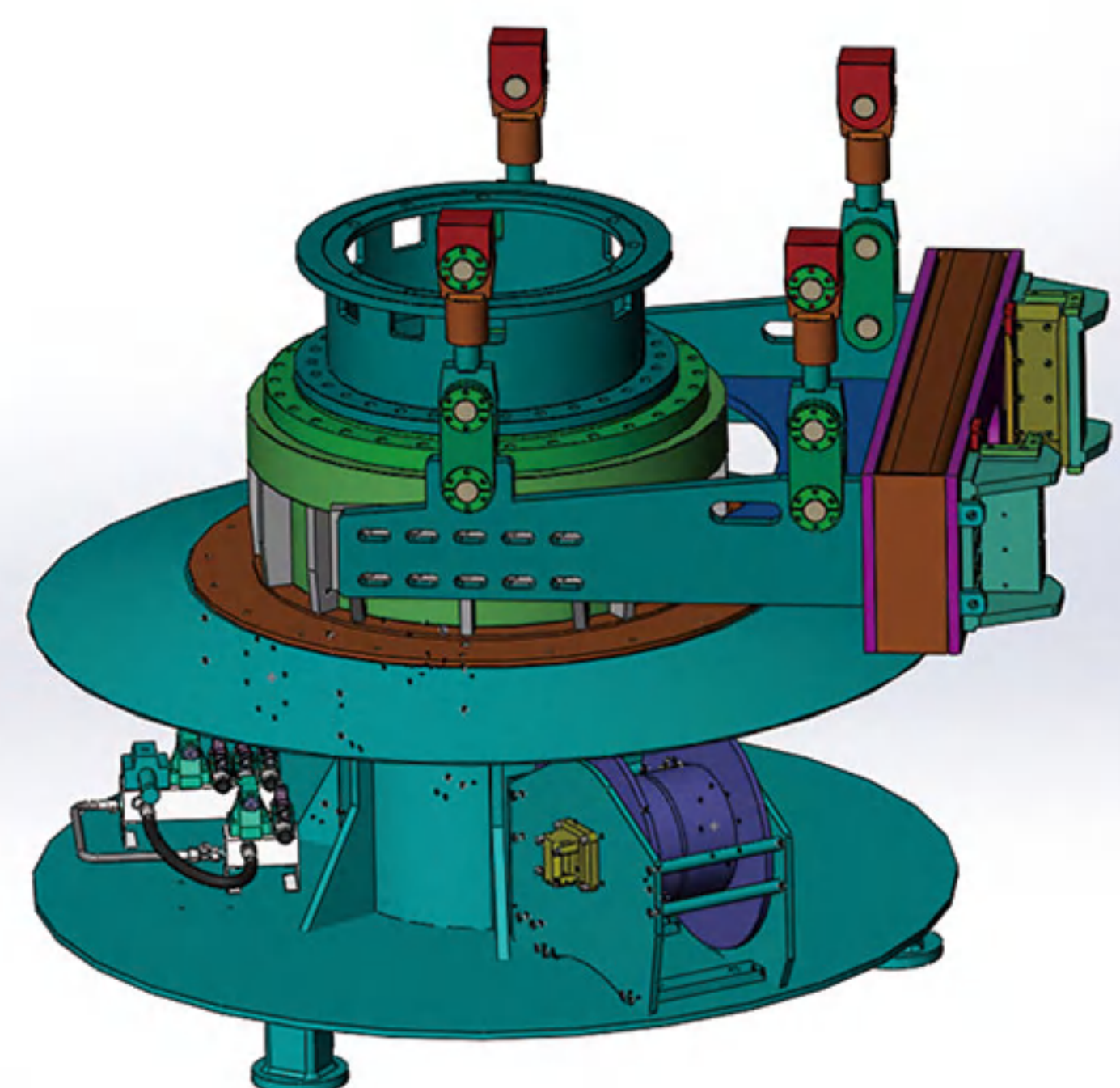
## H-beam Extractor



Model	PEH300LS	PEH360LS	PEH380LS
Normal working pressure(Bar)	320	320	320
Rated pulling pile force (T)	220	260	280
Max.flow (l/min)	160	160	160
Max. clamping force(T)	260	260	260
Lifting cylinder stroke (mm)	1000	1000	1000
Weight(excluding hydraulic station)(T)	4.8	5.2	5.5
H-beam specification (mm)	700*300/600*300 500*300/800*300		700*300/600*300 800*300



## HVB Visualize hydraulic belling rig



TOW Turning winch

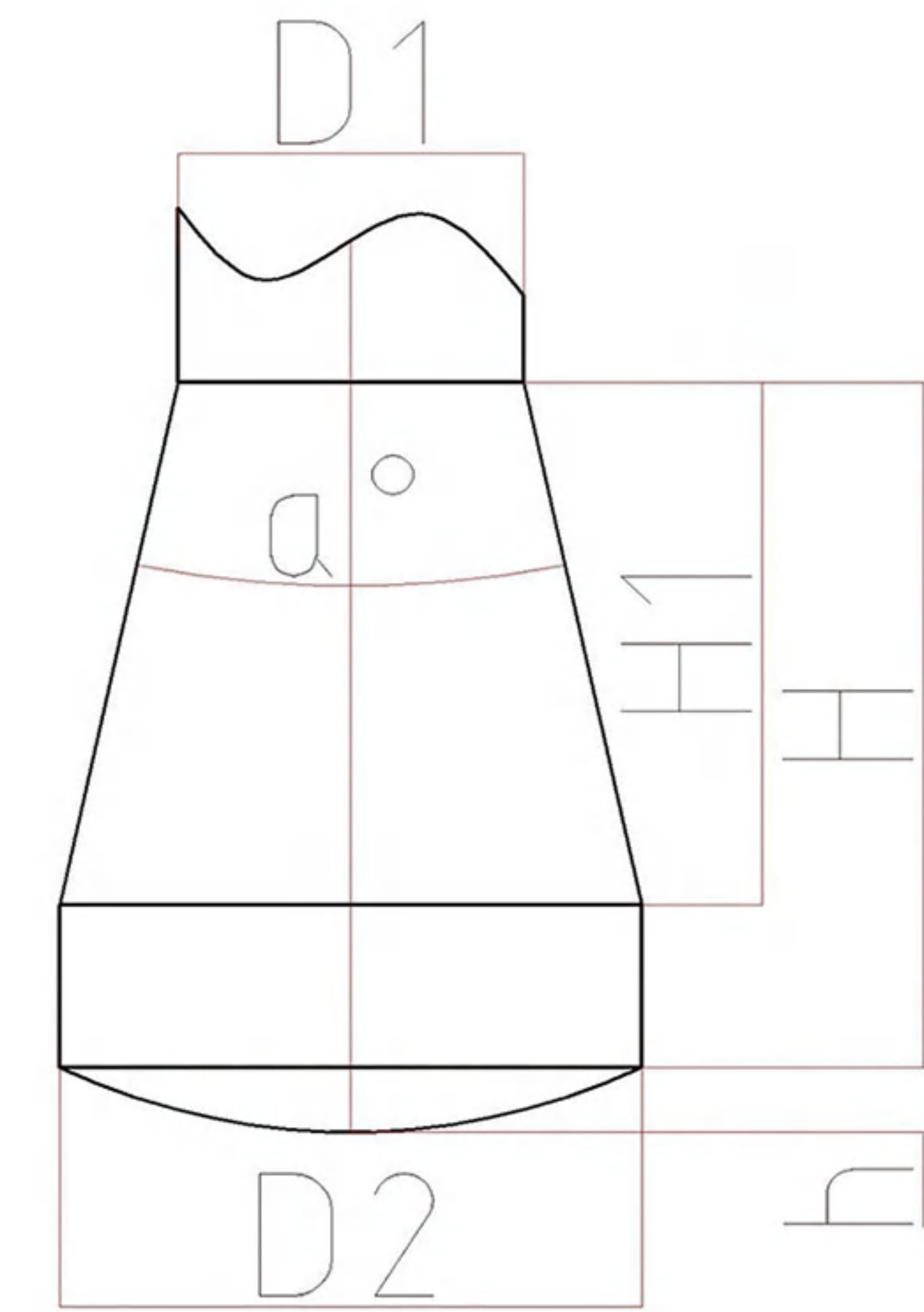
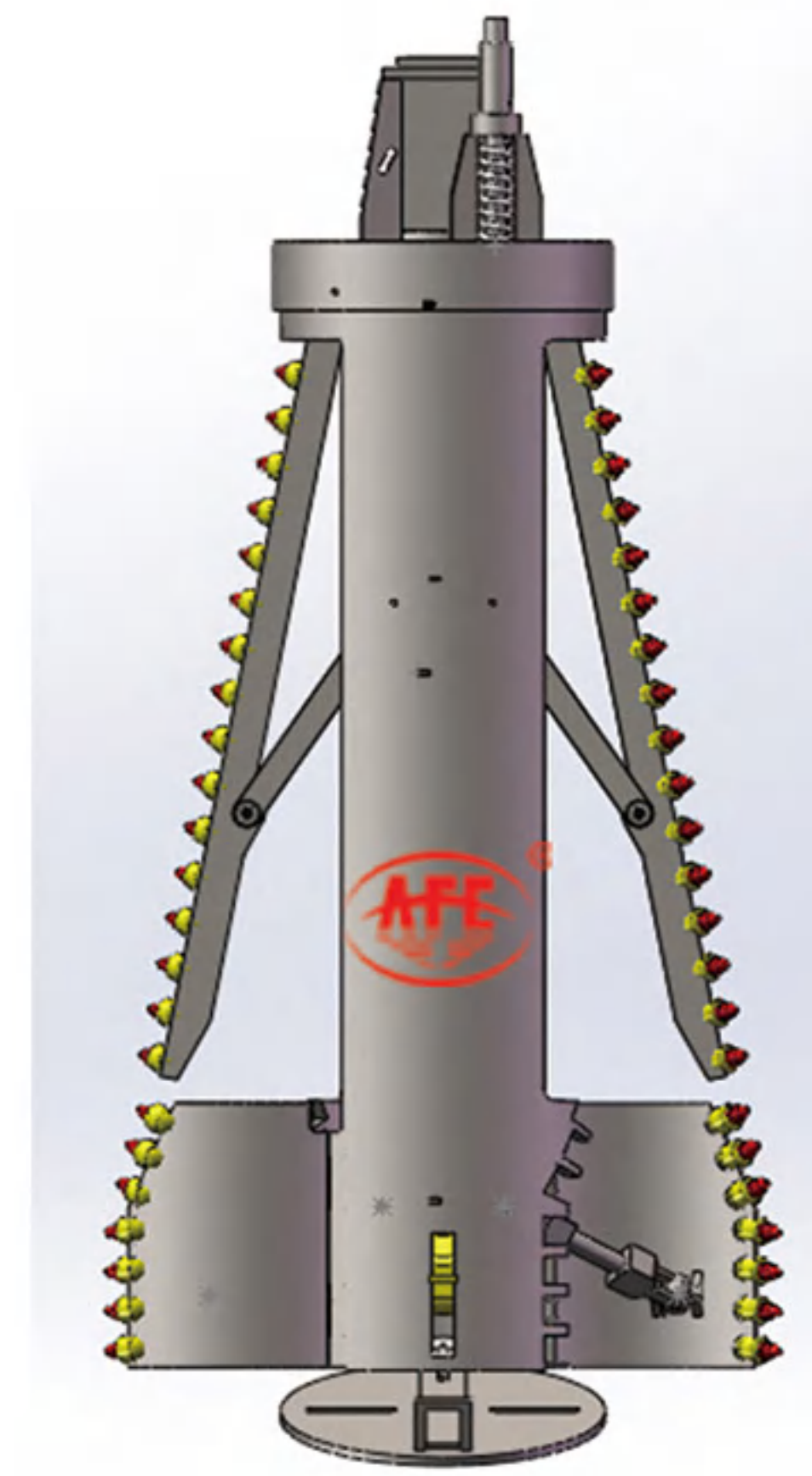
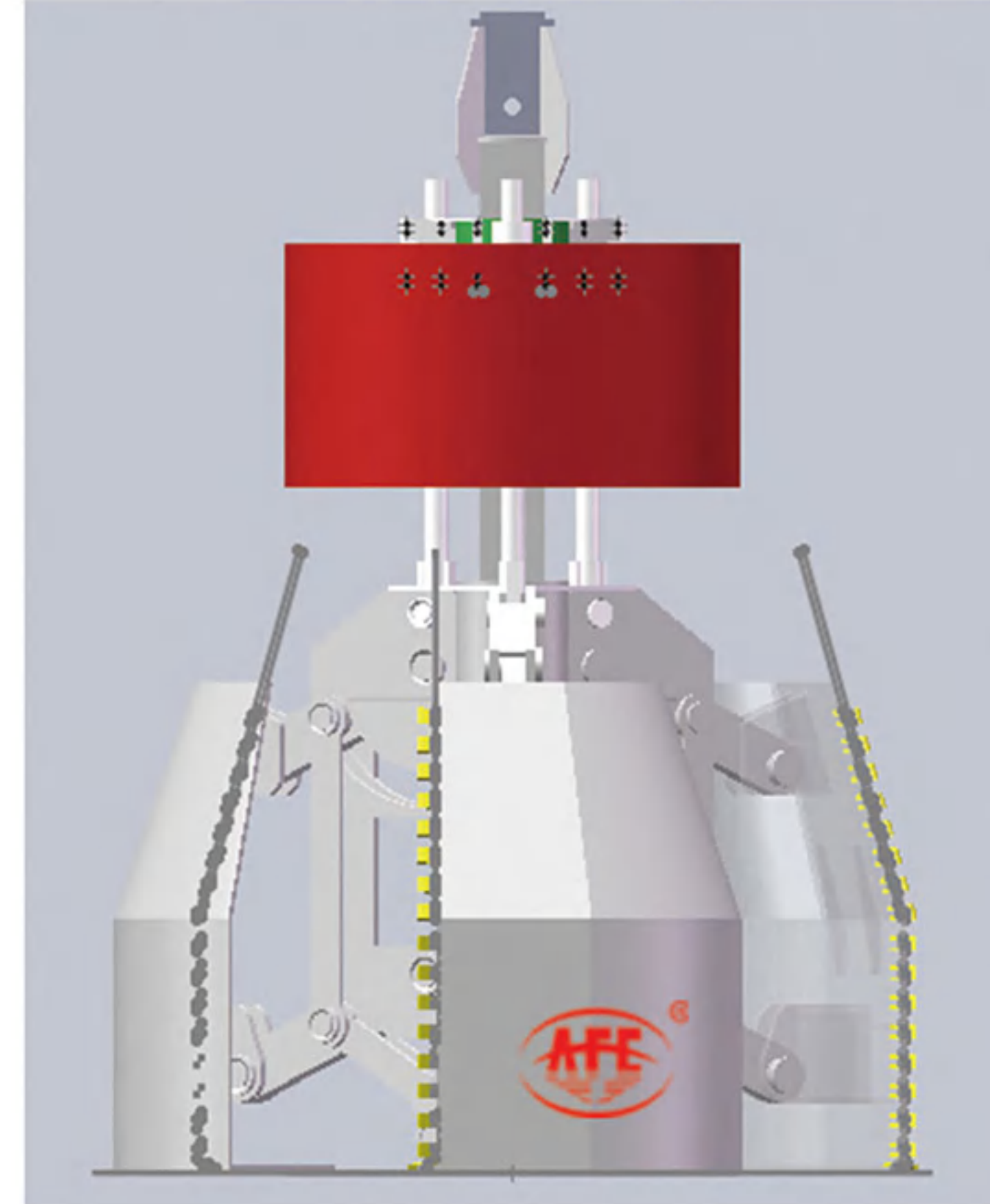
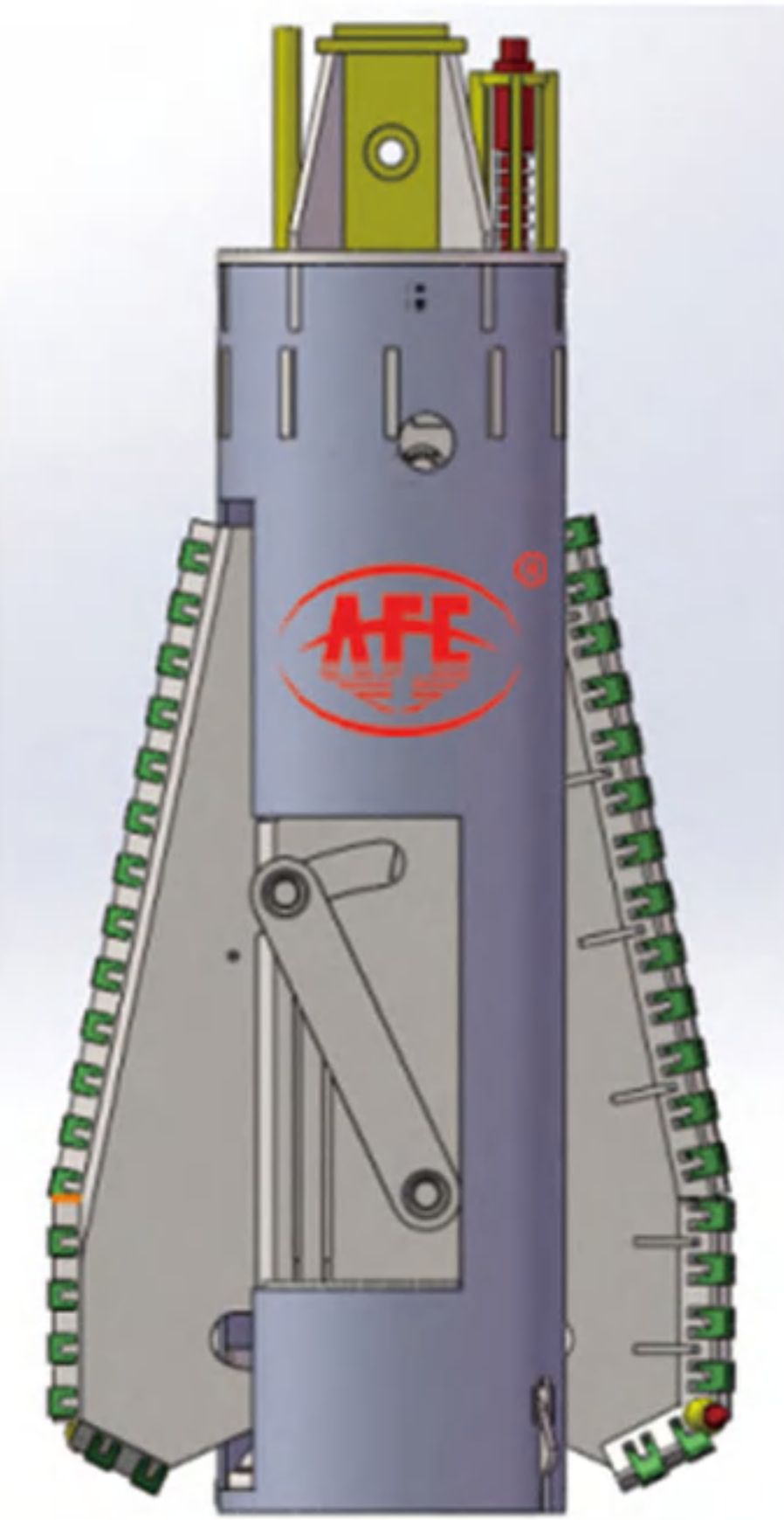
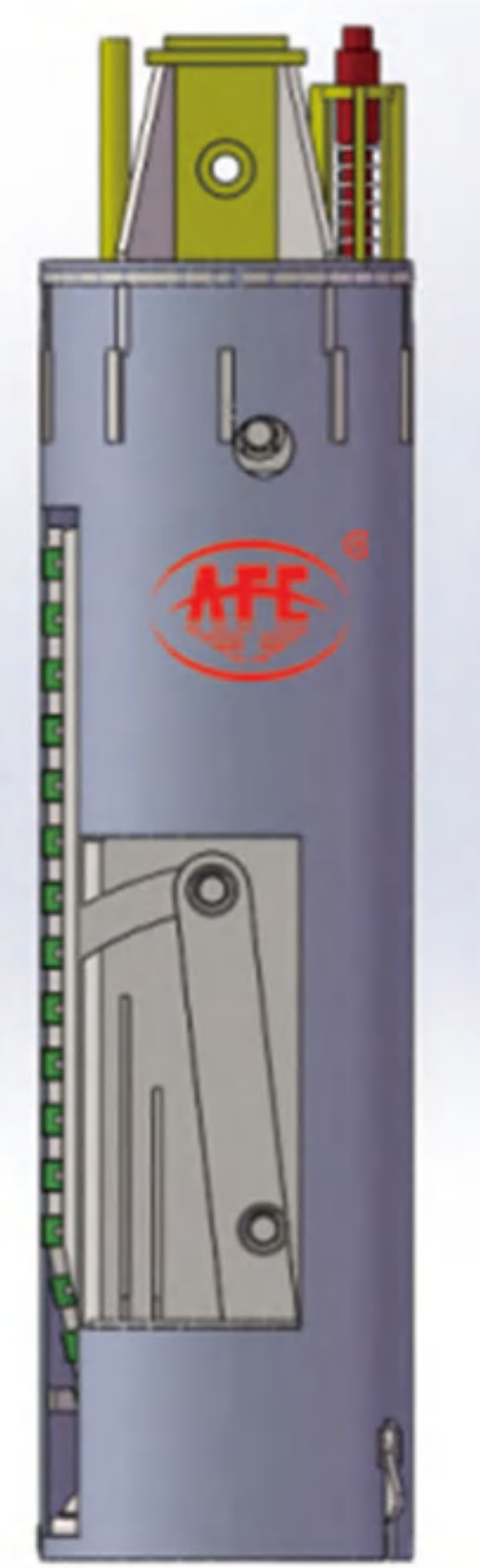


BMD Visualizer

Model	Inner Path (Φ mm)	Kelly Bar Diameter (Φ mm)	Winch		Weight (Kg)	BMD Visualizer
			Q'ty	Max. Depth (m)		
TOW550	550	377~470	2	70	2800	BMD-I
TOW610	610	508~530	2	70	3000	BMD-I
TOW680	680	580	2	90	3500	BMD-II
TOW760	760	630	2	120	4000	BMD-II



## Hydraulic belling buckets



HVB/BR Hard Formation belling Bucket

HVB/BS Soil layer belling Bucket

HVB/BC Graded belling Bucket

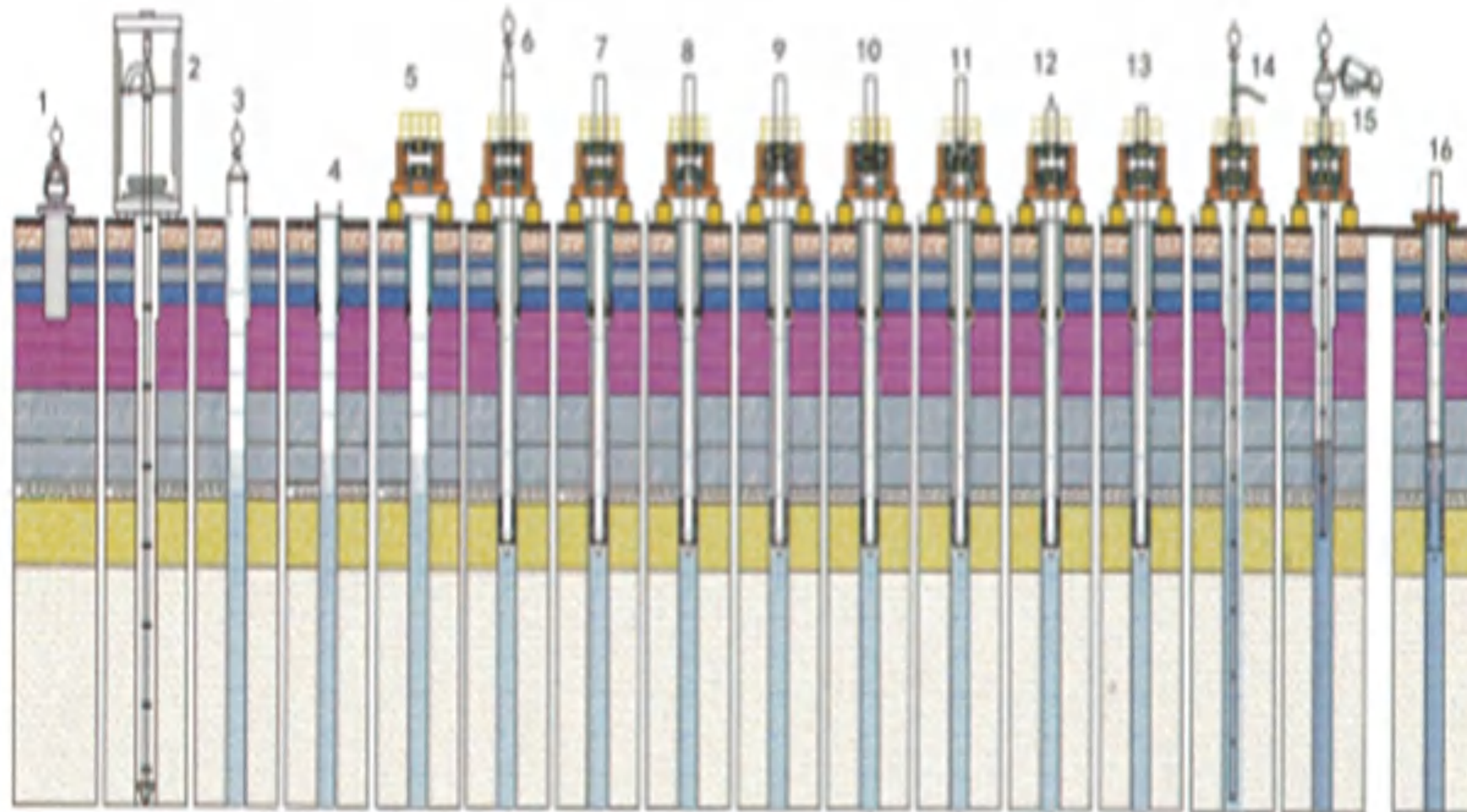
Hydraulic belling pile root

Model	D1(Φ mm)	D2(Φ mm)	α(°)	H1(mm)	H(mm)	h(mm)
HVB600	600	1100	24	1180	1880	≅ 200
HVB700	700	1300	24	1410	2110	≅ 200
HVB800	800	1600	24	1880	2580	≅ 200
HVB850	850	1500	24	1530	2280	≅ 250
HVB1000A	1000	1500	24	1170	1920	≅ 250
HVB1000	1000	1800	24	1880	2630	≅ 300
HVB1200	1200	2200	24	2350	3050	≅ 350
HVB1300	1300	2300	24	2400	3100	≅ 350
HVB1500	1500	2600	24	2590	3340	≅ 400
HVB1800	1800	2700	24	2120	2870	≅ 450
HVB2000	2000	3000	24	2350	3100	≅ 450
HVB2500	2500	3800	24	3060	3810	≅ 500



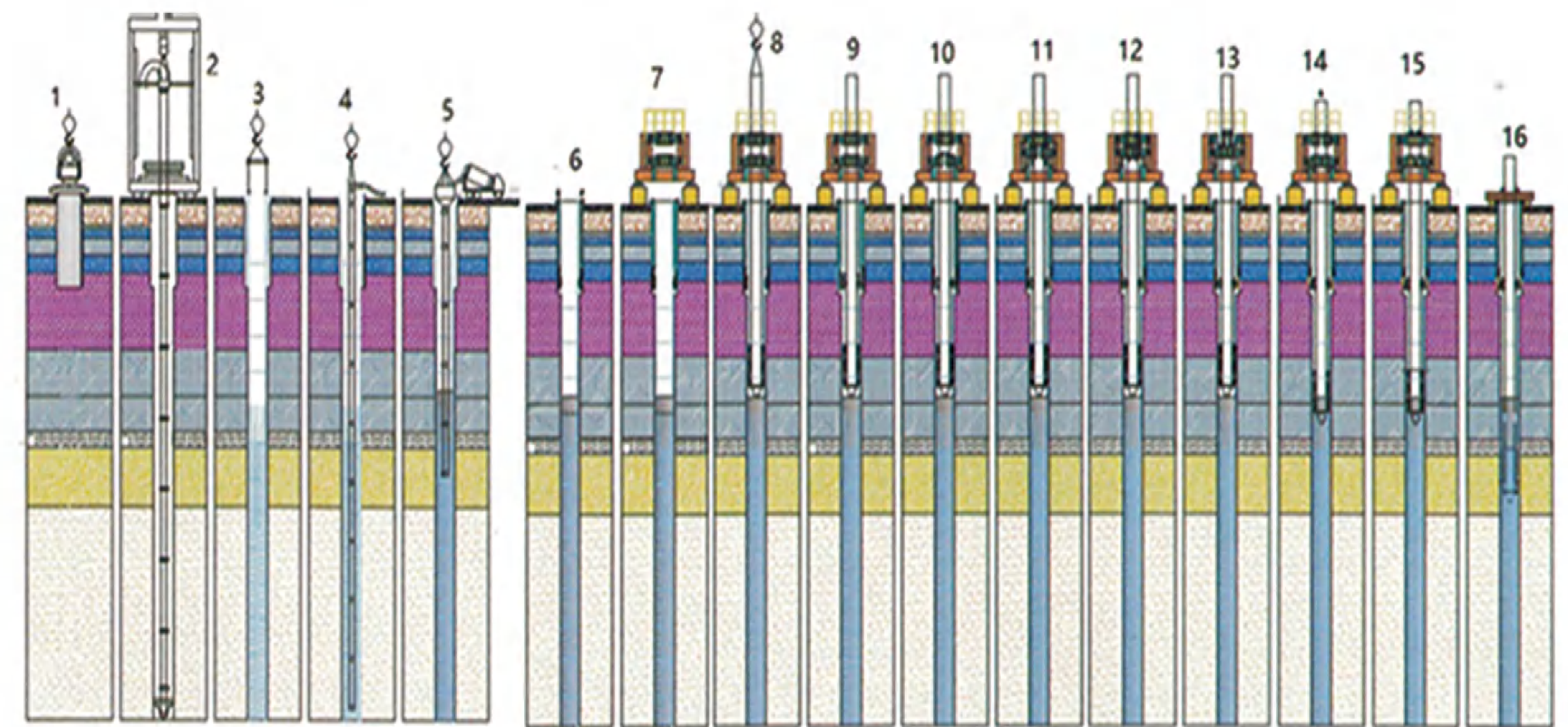
## IVM steel pipe column vertical machine

### Frist insertion construction process



1. Buried wellhead protective tube
2. Drilling and cleaning
3. Put the steel cage
4. Secondary cleanhole
5. FIVM vertical adjustment machine in place
6. Installing steel columns
- 7~12. Adjusting and correct steel columns to predetermined elevation
13. Filling
14. Install tremie pipes
15. Pour concrete
16. Fixed steel columns

### Construction process of posterior insertion



1. Buried wellhead protective tube
2. Drilling and cleaning
3. put the steel cage
4. Secondary cleanhole
5. Subaqueous concreting
6. Installation of the guide deviation rectifying device in the hole
7. MIVM vertical adjustment machine in place
8. Installing steel columns
9. Open the guide deviation correction device
- 10-15. Adjust the vertical degree of the steel pipe column to the predetermined elevation
16. Fixed steel columns

### FIVM First insert steel pipe column vertical machine



### MIVM Reinserted steel pipe column vertical machine

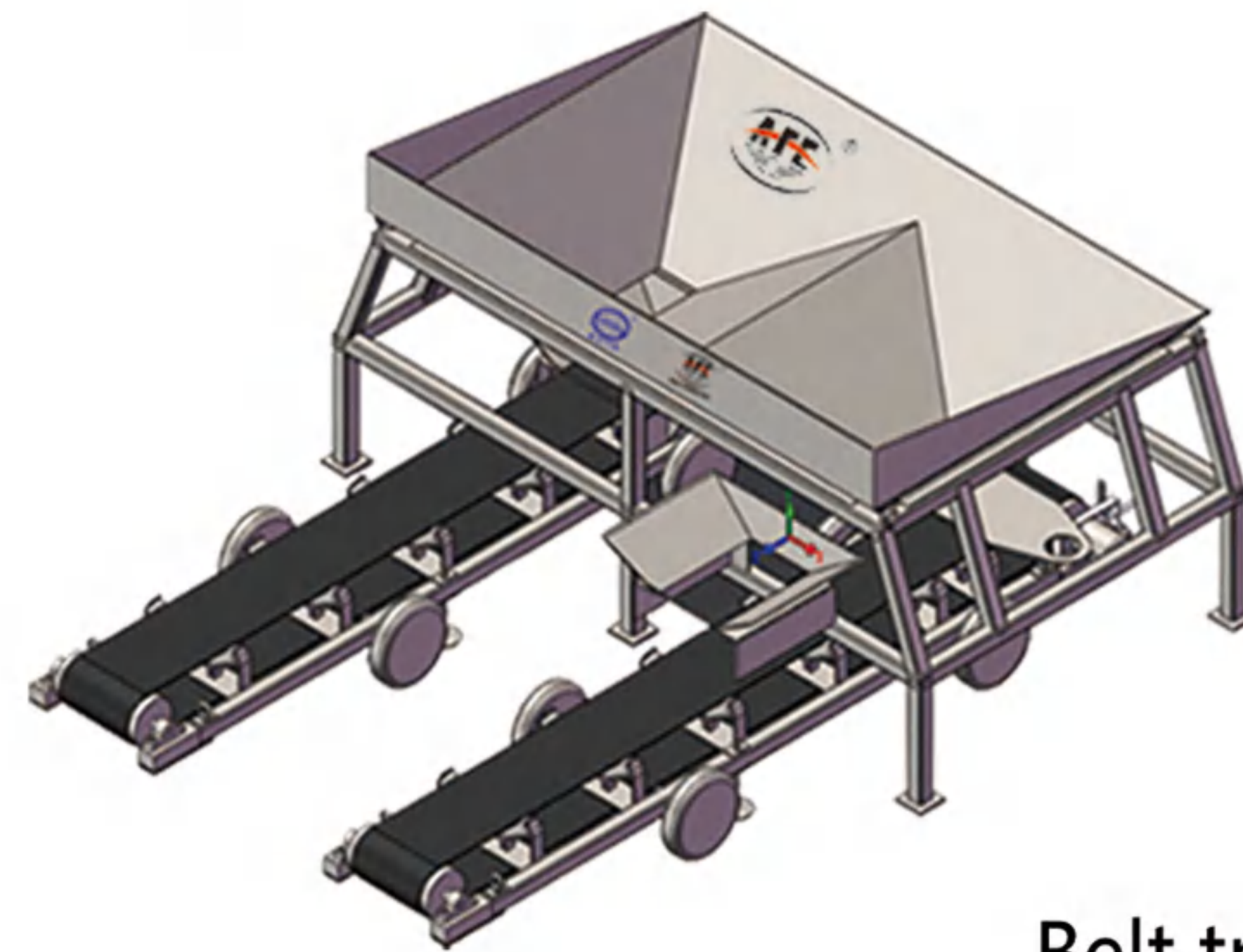




# Inverse practice equipment



Teleoperator



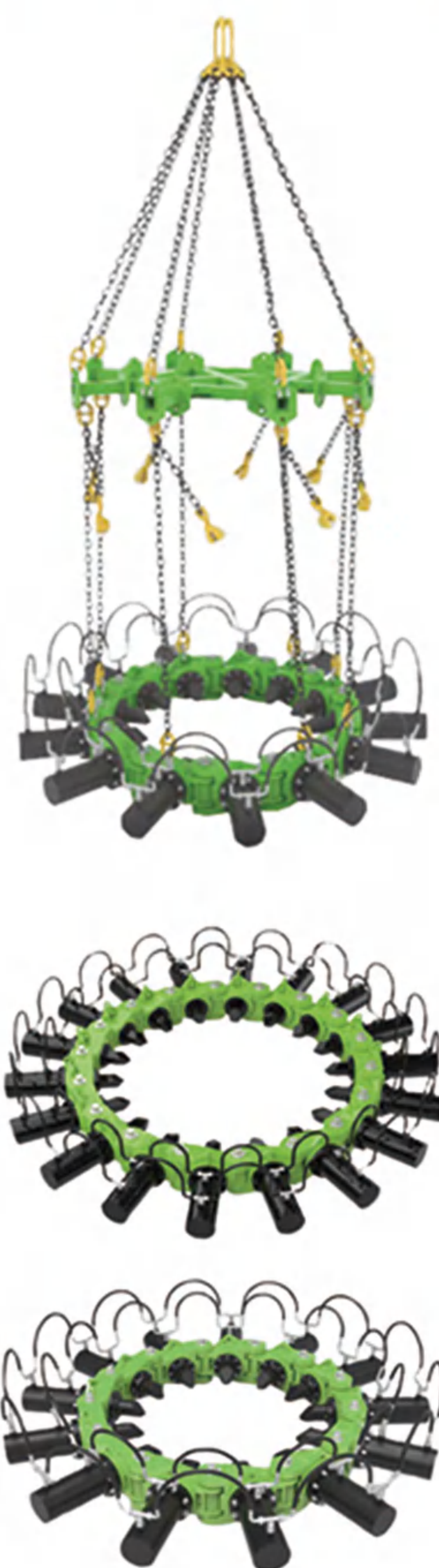
Belt transfer filler



Model	FIVM1000	FIVM1200	FIVM1400	FIVM1600	FIVM2000	FIVM2400	MIVM1000	MIVM1200	MIVM1500	MIVM1800	MIVM2000	MIVM2400
Max. Steel pipe column diameter( $\Phi$ mm)	1000	1200	1400	1600	2000	2400	1000	1200	1500	1800	2000	2400
Max. Pass hole diameter( $\Phi$ mm)	1400	1600	1800	2000	2400	2800	1400	1600	1900	2200	2400	2800
Normal working pressure (Bar)	160	160	160	160	160	160	160	160	160	160	160	160
Max. working pressure (Bar)	320	320	320	320	320	320	320	320	320	320	320	320
Hold the card												
Kava thickness (mm)	1200	1400	1400	1400	1600	1600	900	1000	1200	1300	1400	1400
Clamping force (KN)	350	700	1000	1500	2200	2600	1200	1600	1900	2300	2700	3000
Under the clamping card tile												
Kava thickness (mm)	/	/	/	/	/	/	500	500	600	600	650	650
Clamping force (KN)	/	/	/	/	/	/	1000	1100	1220	1220	1560	1560
Max. X、 Y direction adjustment force (KN)	260	300	300	500	900	1200	330	330	330	360	390	410
X、 Y direction adjust distance (mm)	500	500	500	500	500	500	250	250	250	250	250	250
Z direction Lifting force (KN)	3000	3600	3600	4500	7000	10000	3000	3000	3600	3900	4300	4710
Z direction Adjust distance (mm)	350	350	350	350	350	350	350	350	350	350	350	350
Insertion depth (m)	40	60	60	70	70	70	50	50	60	70	70	70
Min. components shipping dimensions (WxH)(mm)	2940x2450	3000x2800	3180x2800	2980x2800	3180x2800	3180x2800	3000x2800	3000x2800	3000x2800	3000x2800	3000x2800	3000x2800
Working size (LxWxH)(mm)	4290x2940 (3440)x2450	5060x3000 (3500)x4030	5560x3200 (3700) x4635	6000x3600 (4100)x5500	6400x5200 (5700)x5500	6800x5600 (6100)x5500	5800x2900 (3400)x3800	6050x3350 (3850)x4050	6300x3800 (4300)x4300	6500x3900 (4400)x4400	6800x4200 (4700)x4500	7000x4600 (5100)x4600
Weight (Kg)	25000	35000	40000	47000	60000	70000	65000	78000	90000	100000	110000	120000



## Pile Breaker



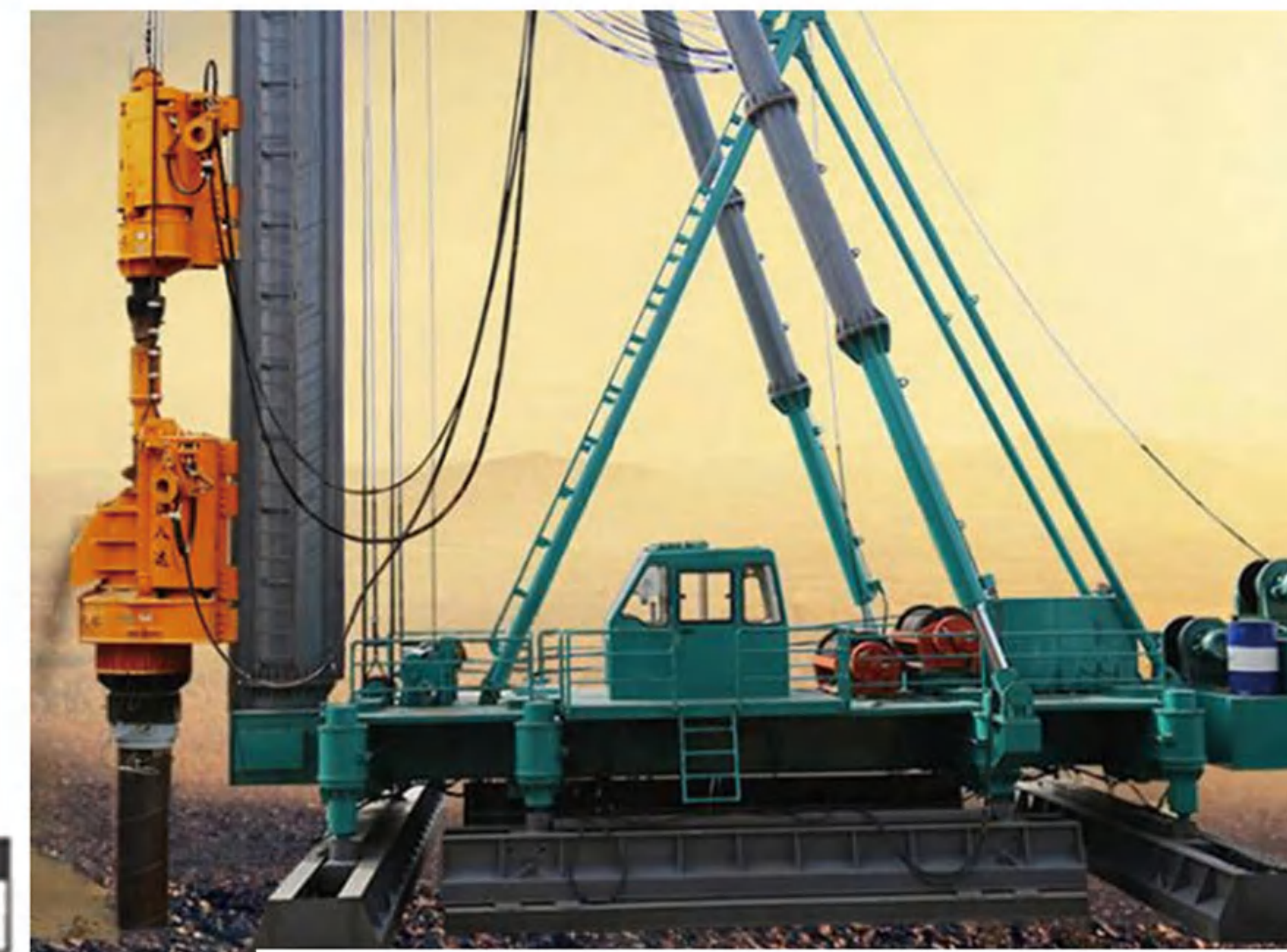
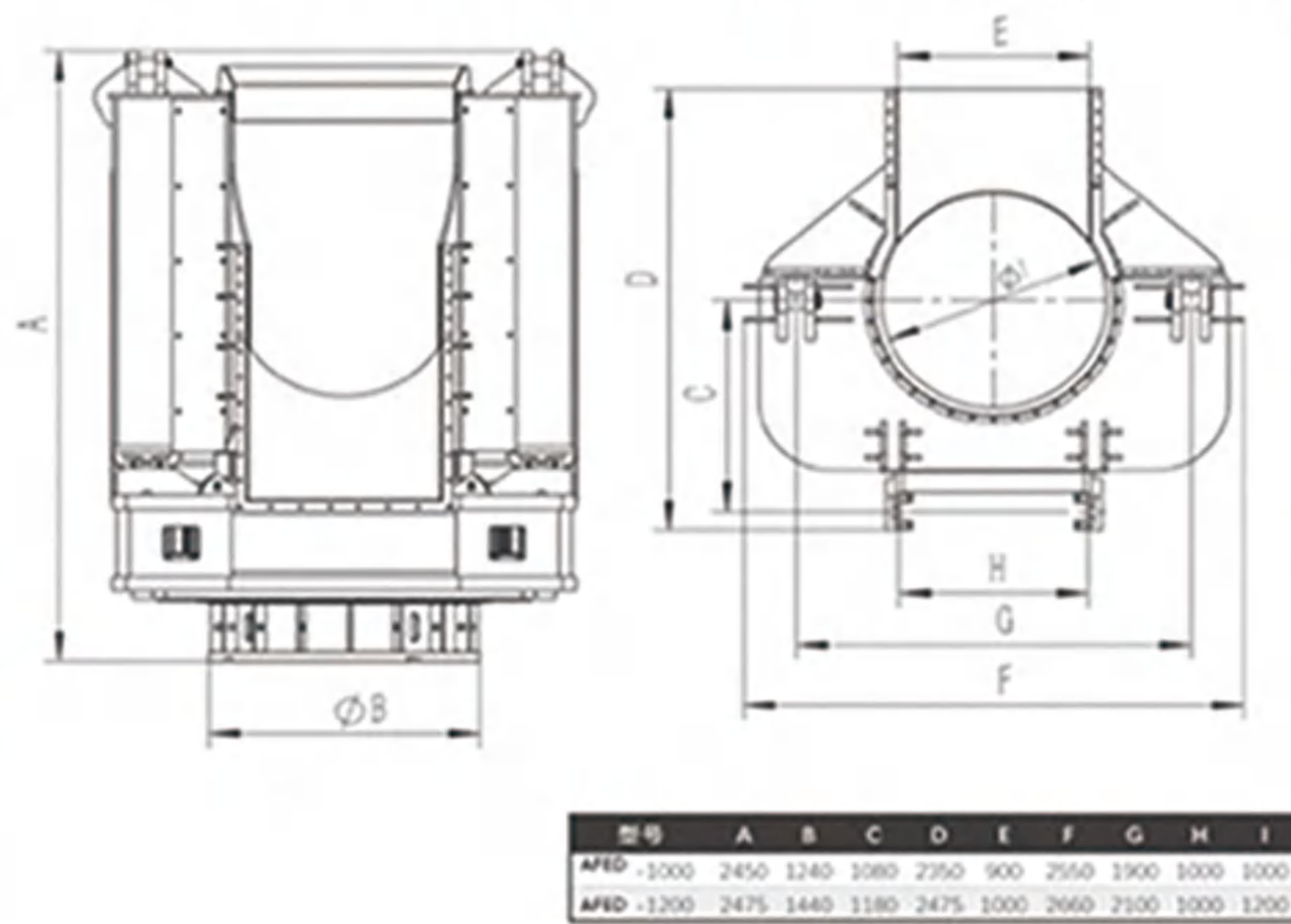
Module quantity	Pile diameter(mm)	Recommenoded excator(T)	Weight ( kg )	Height for breaking pile every time(mm)	Oil flow (L/min)
6	Φ500	≥10	1600	≤1200	160
8	Φ600	≥20	2200		200
9	Φ700		2430		230
10	Φ800-Φ900	≥25	2660		260
11	Φ1000		2890		290
12	Φ1100		3120		320
13	Φ1200	≥28	3350		350
14	Φ1300-Φ1400		3580		380
15	Φ1500	≥30	3810		410
16	Φ1600		4040		440
17	Φ1700	≥35	4270		470
18	Φ1800		4500		500



# Special Pile Drilling Rig



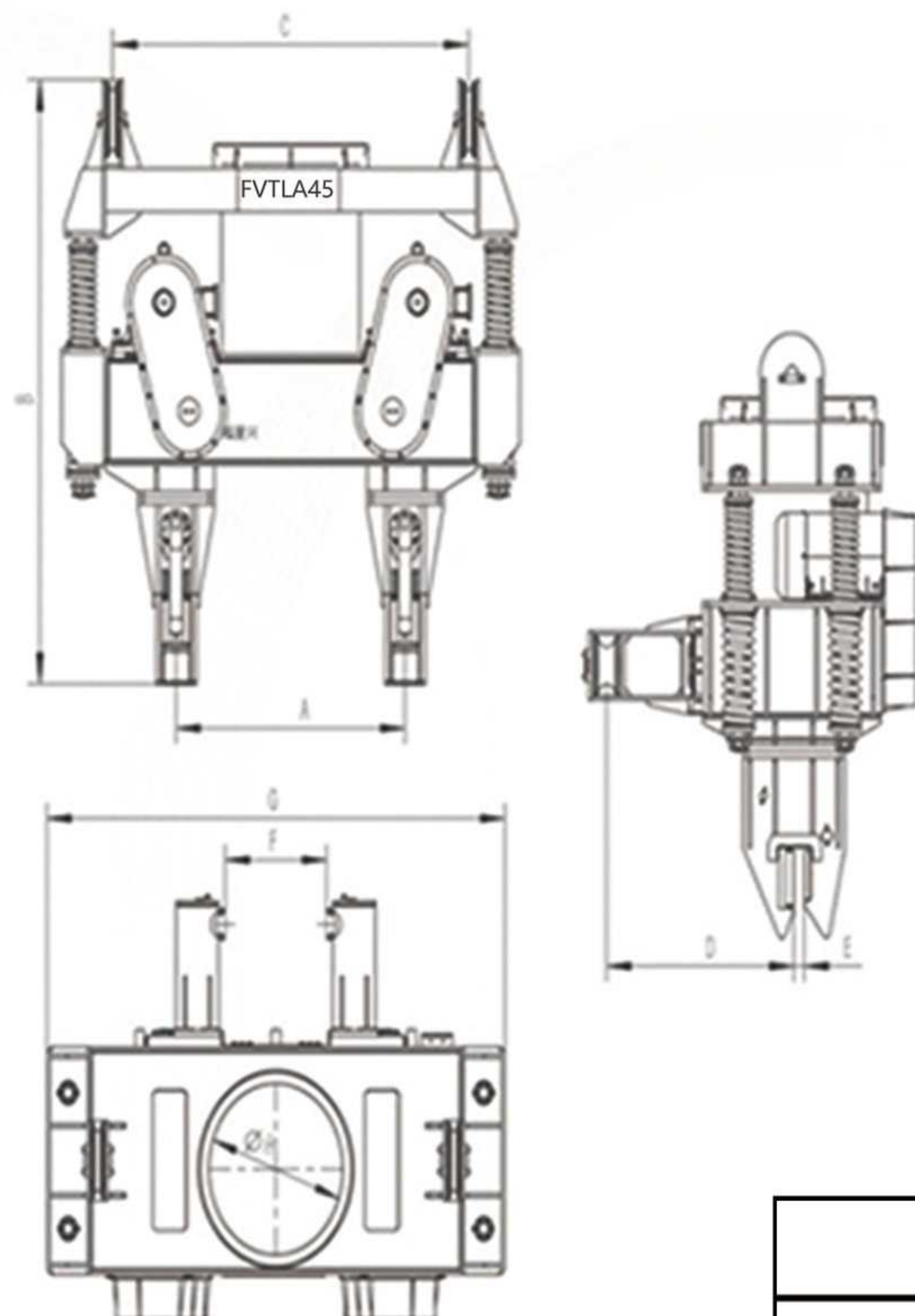
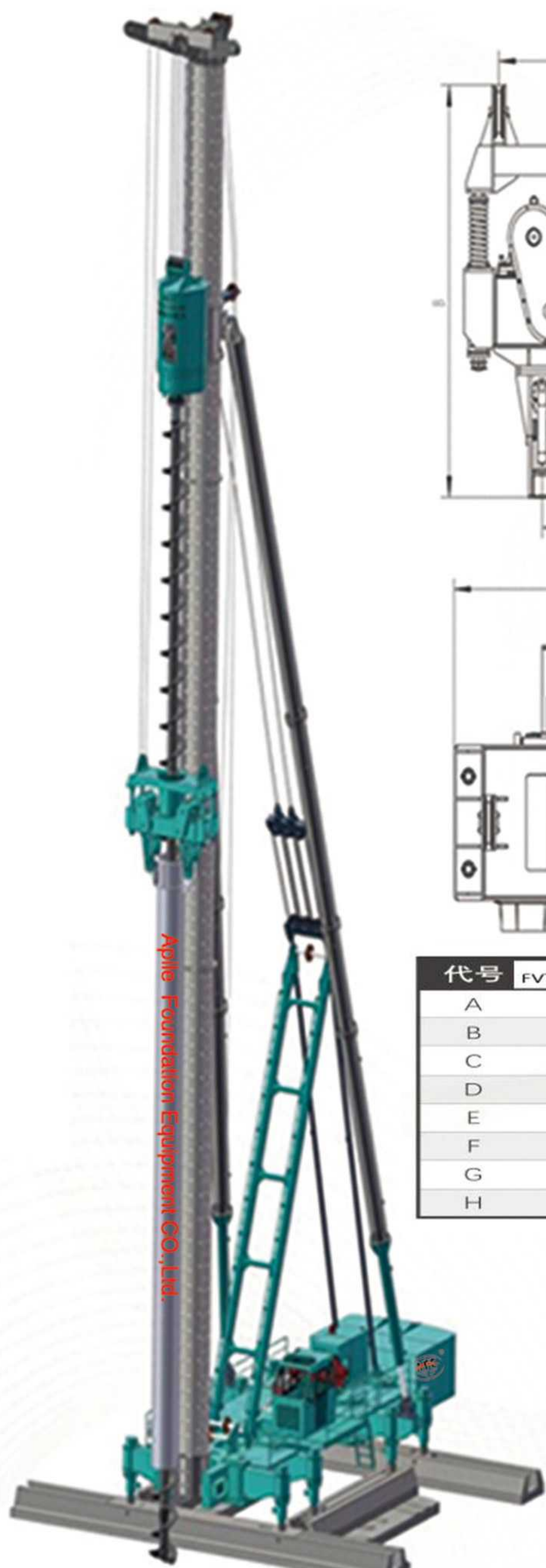
## Double power head all casing rotary drilling rig



Model	AFED220/1000	AFED264/1000	AFED264/1200	AFED320/1200
Motor power(frequency conversion motor) (KW)	110*2	132*2	132*2	160*2
Max. drilling depth (m)	50	50	50	50
Rated speed of the casing (8P) (rpm)	0~8.36	0~8.36	0~7.42	0~7.42
Rated torque of the casing (8P) (KN.m)	50.26	66.3	68	82.37
Max. casing diameter (Φ mm)	1000	1000	1200	1200
Basic length of casing (m)	50	50	50	50
Center distance between the guide rail and the pulley (mm)	1180	1180	1180	1180
Center distance between the casing and the pulley (mm)	1180	1180	1180	1180
Center distance of the guide rail (mm)	900	900	900	900
Wire rope diameter (Φ mm)	42	42	42	42
Number of pulley (pcs.)	2	2	2	2
Operate mode	Electric control	Electric control	Electric control	Electric control
Total weight (T)	About 12	About 12	About 14.2	About 15.3
Recommended pile frame weight (T)	140	180	180	180



## Full-Vibration and tube-length auger drilling rig



代号	FVTLA -45/800	FVTLA -60/800
A	1350	1550
B	2795	2795
C	2100	2300
D	1130	1130
E	60	60
F	600	600
G	2700	2850
H	800	1000



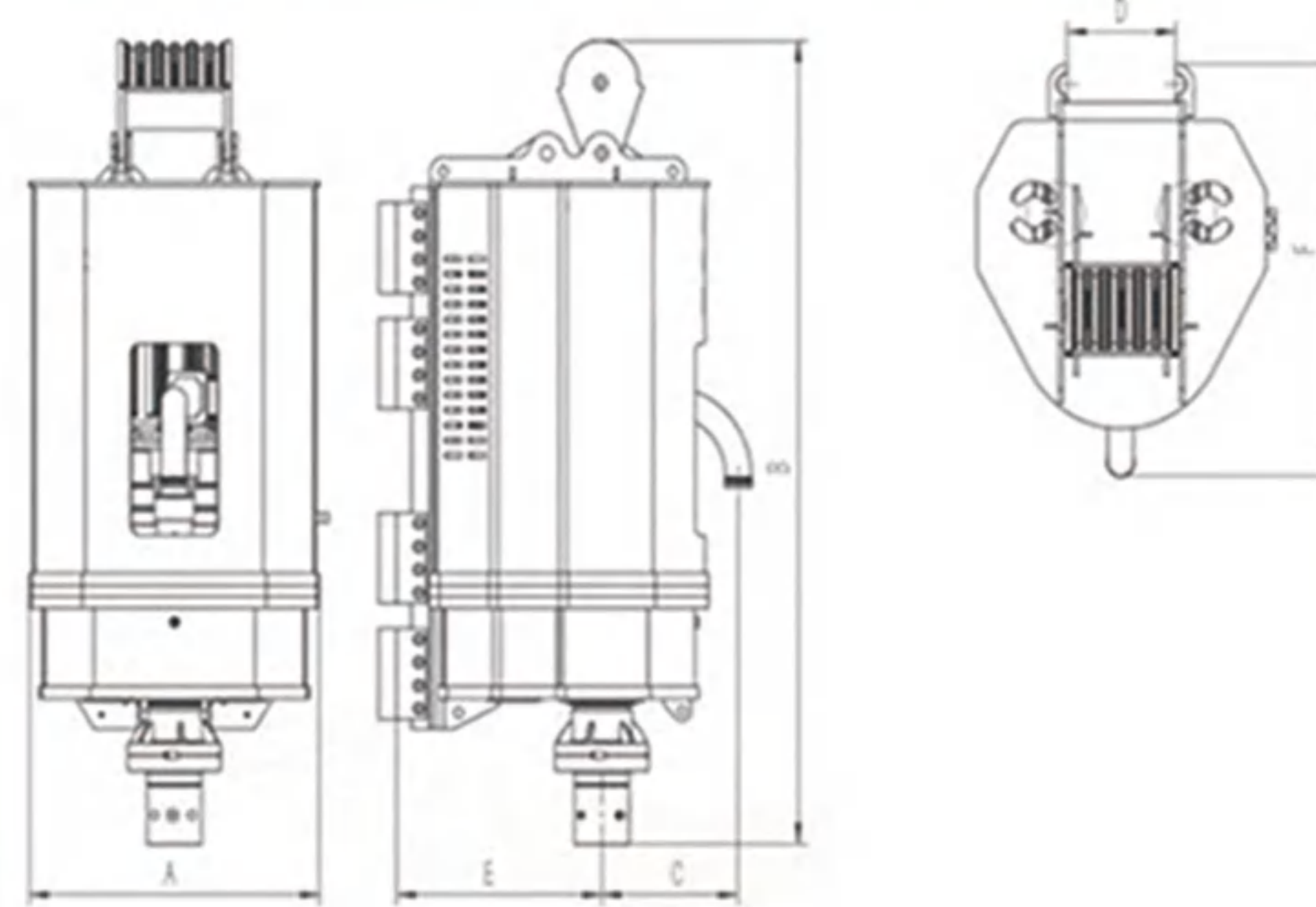
Model	FVTLA-45	No load amplitude (mm)	20
Product name	Spring shock hammer	Use pile pulling force (T)	24
Motor model	Y200L-6	Power pack	KVA 75
Motor power (KW)	22*2		Distance (m)
Hydraulic operated fixture(T)	30	latus rectum (Φ mm) 800~1000	
Central axis speed (rpm)	960	Outline dimension (mm)	2700*2795*2120
Max. excited force (T)	28	Weight (KT)	7



# Special Pile Drilling Rig



## Supper deep large diameter long auger rig



型号	A	B	C	D	E	F
AFELA180/1000-D2	1590	4010	750	600	960	1815
AFELA220/1200-D2	1590	4156	820	600	1130	2045
AFELA265/1200-D2	1590	4156	820	900	1130	2045
AFELA320/1500-D2	2300	4635	1050	900	1130	2530

Model	AFELA110/600	AFELA150/800	AFELA180/1000	AFELA220/1200	AFELA264/1500	AFELA320/1500
Motor power (frequency conversion motor) (KW)	55x2	75x2	90x2	110x2	132x2	160x2
Max. drilling depth (m)	32	32	42	42	55	55
Rated speed of drill rod (8P) (rpm)	0~21	0~20.6 0~27.2	0~11.9 0~19.6	0~11.2;(0~7.87;0~8.92; 0~9.9;0~15.4)	0~7.5;0~15.8	0~7.9;0~15.8
Rated torque of drill rod (8P) (KN.m)	5	5.26/6.96	8.77/14.44	18.75;(22.22;23.55;26.8)	32	38.68
Drill rod diameter (Φ mm)	273	299	299	299	351	351
Basic length of drill rod (m)	33	33	46	46	55	55
Center distance between the guide rail and drill rod (mm)	960	960	960	1130	1130	1130
Center distance between the guide rail and the pulley (mm)	960	960	960	1130	1130	1130
Center distance of the guide rail (mm)	600+Φ102	600+Φ102	600+Φ102 (900+Φ100)	600+Φ102	900+Φ100	900+Φ100
Wire rope diameter (Φ mm)	20	22	22	22	22	22
Number of pulley (pcs.)	6	6	6	6	6	6
Internal diameter of slurry pipe (Φ mm)	120	120	120	120	120	120
Operate mode	Electric control	Electric control	Electric control	Electric control	Electric control	Electric control
Total weight (T)	9	9.5	10.5	12	16.2	16.5
Recommended pile frame weight (T)	85	100	120	140	180	180



## Thin Diaphragm Walls



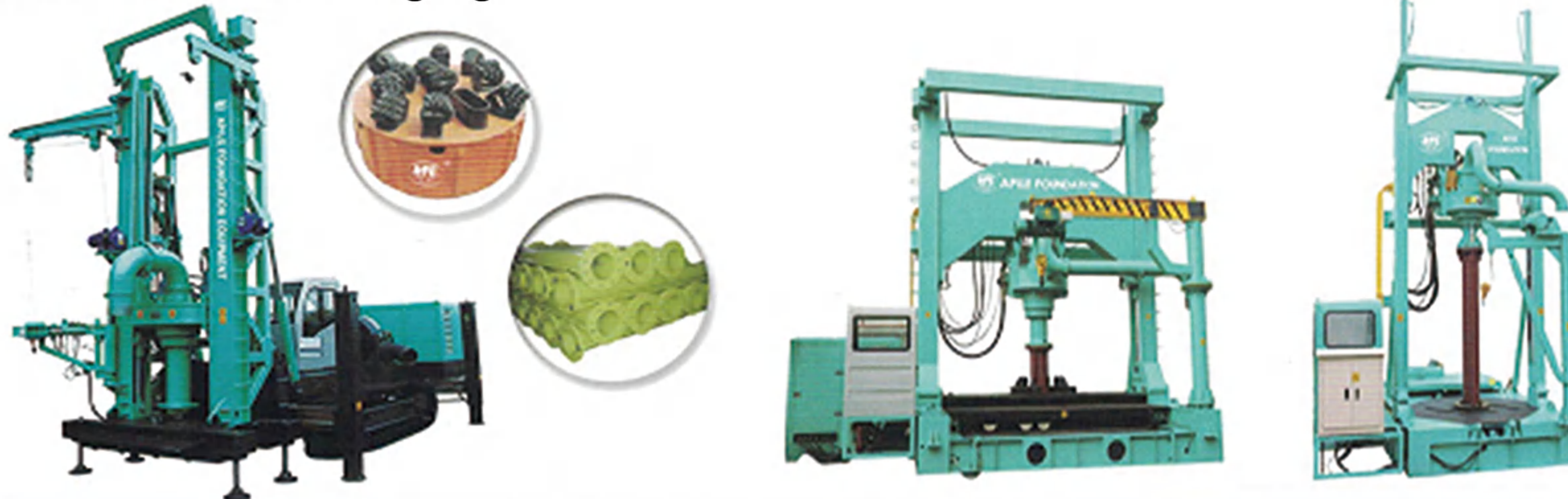
Model	AFEDW400/15	AFEDW600/20	AFEDW600/30
Grabs dimensions (mm)	1500x400	2000x600	2500x600
Max. Depth with kelly Bar (m)	15	20	30
Max. Depth with square kelly Bar (m)	12	18	25
Engine power (KW)	54	78.5	97
Total weight (T)	13	20	27



# Special Pile Drilling Rig



## Reverse circulation drilling rig



Model	AFERCD7000/1200	AFERCD5000/600	AFERCD4000/450	AFERCD3000/400	AFERCD2000B/280 (Pile top type)	AFERCD2000A/120 (Pile top type)
Max. Drilling diameter (Φ mm)	7000	5000	4000	3000	2000	1000
Max. drilling depth (m)	300	200	200	160	120	100
Power head speed (rpm)	0~12.5	0~13	0~15	0~18	0~23	0~34
Power head torque (KN.m)	1200	600	450	400	280	120
Power head drive mode	Flan-dish connection	Flan-dish connection	Flan-dish connection	Flan-dish connection	Flan-dish connection	Flan-dish connection
Power head Rated lifting force (KN)	8000	4000	3000	2000	1200	600
Power head Rated lift speed (m/min)	0~2	0~3	0~3	0~3	0~3.5	0~3.5
Lift the force of the drill pipe crane (T)	8	5	2	2	1	1
Discharge method	Gas lift reverse circulation	Gas lift reverse circulation	Gas lift reverse circulation	Gas lift reverse circulation	Gas lift reverse circulation	Gas lift reverse circulation
Standard discharge and air distribution requirements(m <sup>3</sup> /min)	≥1.3Mpa 40	≥1.3Mpa 30	≥1.3Mpa 20	≥1.3Mpa 20	≥1.3Mpa 15	≥1.3Mpa 15
Rated working pressure of the hydraulic system (Bar)	320	320	320	320	320	320
Max. Power (KW)	1239	550	370	370	commins 299/1900rpm	168
Host outline dimension (LxWxH) (m)	13x9.9x17	10.5x7.3x13.5	7.5x5.7x9.2	6.72x5.22x9.86	4.82x4.83x7.6	4.82x4.83x7.6
Host weight (Including pump station without drilling tools ) (T)	230+20	98+12	57+8	34+6	20+5+9 ( clamping device )	15+8+8 ( clamping device )



## Soil Mixing Attachments



Model	SMA-I	SMA-II
Recommended Excavator Weight (T)	35~55	50~80 or 80~120
Rated hydraulic Power (KW)	130	220
Mixing Width (mm)	350~500	450~600
Width of gearbox (mm)	1000	1360
Mixing depth (m)	5~7	6~12
Recommended chain speed (m/s)	2~2.5	2~2.5
Recommended oil flow at 160 Bar (l/min)	300~400	550~700
Max. Oil flow (l/min)	400	700
Max. Operating hydraulic pressure (Bar)	400	400
Max. Permissible ground compressive strength (Bar)	10	10
Standard mixing tool (type)	SMT22/46/38/22HC	SMT22/90/70/30HQ
Weight of attachment built for Max. Mixing depth (Kg)	4500	12500
Weight per meter for extension (Kg)	350	700

## MSM Process



Model	MSM120	MSM150	MSM170
Recommended Excavator Weight (T)	25~40	30~40	35~50
Rated hydraulic Power (KW)	120	120	160
Max. Mixing depth (m)	6	6	6
Length of mixing cutter without extension (mm)	1070	1070	1070
Width of mixing head (mm)	1000	1000	1260
Diameter of mixing head (mm)	730	730	720
Recommended rotation speed (rpm)	70	65	60
Recommended oil flow (l/min)	250~330	280~350	300~390
Max. Oil flow at 10 Bar (l/min)	350	350	400
Max. Operating hydraulic pressure (Bar)	400	400	400
Weight of mixing cutter without extension (Kg)	1500	1500	2020
Number of mixing tools (pcs.)	48	48	58
Standard mixing tool (type)	SMT22/90/70/30HQ	SMT22/90/70/30HQ	SMT22/90/70/30HQ
Possible extensions (m)	2~5	2~5	2~5
Length of standard extension (m)	2	2	2



# Soil mixing equipment



## Multiaxis Mixing Drilling Rig



TMDR three-axis Mixing drilling Rig



5R Five-axis Mixing drilling Rig

Model	TMDR110/65-3	TMDR220/85-3	TMDR225/65-5	TMDR330/85-5
Max. Drilling Diameter (Φ mm)	Φ650*3	Φ850*3	Φ650*5	Φ850*5
Center distance of drill rod (mm)	450	600	450	600
Max. drilling depth (m)	33	39	35	43
Rated speed of drill rod (8P)( rpm)	0~22.1	0~17.2(0~26)	0~22.1	0~17.2(0~26)
Rated torque of drill rod (8P) (KN.m)	1.58	4.1	1.94	3.66
Drill rod diameter (Φ mm)	219	273	219	273
Basic length of drill rod (m)	29	36	27	36
Motor-rated power (KW)(variable frequency starting)	110(55*2)	220(110*2)	225(75*3)	330(110*3)
Distance between the guide rail center and the center of the drill rod (mm)	960	1030	960	1030
The distance between the guide rail center and the center of the pulley wheel (mm)	615	680	615	680
The center distance of the guide rail (mm)	600*Φ102	600*Φ102	600*Φ102	600*Φ102
Wire rope diameter (Φmm)	22	22	22	22
Number of pulley (pcs.)	6	6	6	6
Pu-lma tube and trachea diameter(Φmm)	42	50	38	50
Gr-pipe and air pipe joint diameter (Φmm)	3-R12	3-R12		
Operation mode	Electrical control	Electrical control	Electrical control	Electrical control
Powerheadtotalweight (T)	About 12.3	About 13	About 8.5	About 16.2
Recommended pile frame weight (T)	140	160	140	180

Soft foundation processing equipment



## CSM Cutting Soil Mixing Machine



Model		CSM35	CSM45	CSM50	CSM55	CSM65
Power head	Model of milling head	AFEM8				
	Max. Depth (m)	35	45	50	55	65
	Min. Thickness (mm)	700				
	Torque (KN.m)	80	80	100	80	80
	Rotation speed (rpm)	0-25	0~25	0~21	0~25	0~25
Host	Power (KW)	299/1900	330+75	403/2100	330+45	330+45
	Hydraulic system pressure (Bar)	350				
	Swing angle (°)	360				
Column	Total length (m)	37.6				
	Cylinder diameter (Φ mm)	720				
	Pile pulling force (KN)	960	800	960		
	Support model	Three-point				
Main winch	Max. Single rope pull (KN)	300	200	250		
	Rope speed (m/min)	0~16				
	Wire rope diameter (Φ mm)	26				
Auxiliary winch	Max. Single rope pull (KN)	75	80			
	Rope speed (m/min)	13				
	Wire rope diameter (Φ mm)	20				
Chassis	Track width (mm)	5000/3500				
	Track shoe width (mm)	900				
	Ground clearance (mm)	450				
	Ground pressure ratio (Mpa)	0.145				

## TRD Trench Cutting Re-mixing Deep wall Machine



Model		TRD95		TRD85	
Part	parameter				
Dynamic parameters	Engine Power (KW)	410	110*3+6	410	110*3+6
	Power type	Diesel Engine	Electric Motor	Diesel Engine	Electric Motor
	Hydraulic system rated pressure (Bar)	340	340	340	340
Cutting parameters	Total oil flow (l/min)	830	980	720	760
	Max. Cutting depth (m)	70	70	45	45
	Max. Wall width (mm)	950	950	850	850
	Chain speed (m/min)	0~72	0~85	0~60	0~65
	Cutting force (T)	35.5	35.5	35.5	35.5
	Breaking Tension (T)	110	110	110	110
	Lifting Cylinder Stroke (mm)	4450	4550	4450	4550
	Lifting/Pressing Force (KN)	2235	2235	1500	1500
	Horizontal cylinder Stroke (mm)	1200	1200	1200	1200
	Lateral Thrust/Tension (KN)	1180	1180	720	720
	Tilt Cylinder Stroke (mm)	1000	1000	1000	1000
Chassis	Left and right tilt angle of column (°)	±5	±5	±5	±5
	Front and rear tilt angle of the gantry(°)	±6	±6	±6	±6
	Ground clearance (mm)	495	495	425	425
	Counterweight (T)	30	30	30	30
	Track shoe width (mm)	850	850	760	760
	Max. track center distance (mm)	4250	4250	4050	4050
	Track transportation center distance (mm)	2450	2450	2540	2540
Machine parameters	Drive wheel to tension wheel center distance (mm)	6350	6350	5260	5260
	Walking speed (m/min)	3	3	3	3
	Weight (T)	120 (No cutting box)	120 (No cutting box)	105 (No cutting box)	105 (No cutting box)



# High pressure rotary injection equipment



## Crawler multi-tube rotary jet drilling rig



MPRJD-150L Multi-pipe rotary jet drill with Lifting arm

Model	MPRJD-150L			
Spindle bore (Φ mm)	150			
Spindle speed (rpm)	High rate	0 ~ 48	low speed	0 ~ 24
Spindle torque (KN.m)	High rate	6	low speed	12
Feed stroke (mm)	1000			
Feed speed (m/min)	Rising	0 ~ 2	Decline	0 ~ 4
Center high of power head (mm)	1850(ground clearance)			
Max. Feed force of power head (KN)	50			
Max. hoist force of power head (KN)	100			
Motor power (KW)	45+11			
Max. lifting weight of the boom (T)	3.2			
Max. elongation of the lifting arm (m)	7.5			
Rotation Angle of the lifting arm (°)	360			
LxWxH(mm)	4500x 2200x2850(without the lifting arm)			
Weight (T)	9			



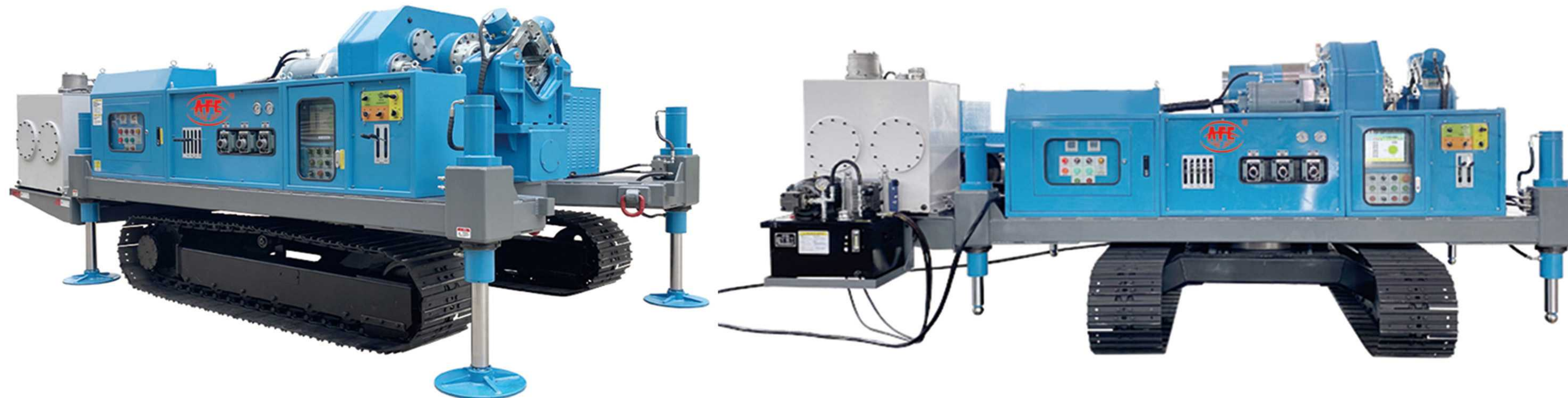
RGR Multi-tube rotary jet drilling rig

Model	RGR150A	RGR150B	RGR150C
Chassis	Track walk 360°swing	Walking style	
Column	0-90°Put the deputy	Vertical fixed type	
Power head	Through-hole Φ150 mm hydraulic chuck		
Power head trip (m)	1.7	1	1
Auxiliary tower height (m)	2~4		
Speed (rpm)	Low speed: 0~24		
	High speed: 0~48		
Promotion force (T)	12	9	10
Max. torque (KN.m)	14		
Max. hoisting speed (m/min)	6	4	
LxWxH (operative mode) (mm)	5600*2550*7500(Include auxiliary tower)	3336*2172*7315 (Include auxiliary tower)	4440*2194*3526
LxWxH (Non-working mode) (mm)	5400x2550x2850	3336x2172x2815	4016x2194x2850

Soft foundation processing equipment



## Multi-pipe horizontal rotary jet drill rig



Model	MPHRJR-150			
spindle bore (Φ mm)	150			
Spindle speed (rpm)	High rate	0 ~ 48	low speed	0 ~ 24
Spindle torque (KN.m)	High rate	6	low speed	12
Feed stroke (mm)	1000			
Feed speed (m/min)	Rising	0 ~ 2	Decline	0 ~ 4
Center high of power head (mm)	1850(ground clearance)			
Max. Feed force of power head (KN)	50			
Max.hoist force of power head (KN)	100			
Motor power (KW)	45+11			
LxWxH(mm)	4500x2150x1900			
Weight (T)	8.5			



# High pressure rotary injection equipment



## Crawler rotary jet drill rig



CRJD50 High tower rotary jet bolt drill rig



CRJD50B crawler rotary jet drilling rig



CRJD50A crawler rotary jet drilling rig

Model	CRJD50	CRJD50A	CRJD50B
Max. borehole depth (m)	50	50	50
Rotary jet grouting	Single, double, and three tubes		
Rod diameter (Φ mm)	73, 89	42, 50, 73	
Drill tower angle (°)	90	Left and right ± 3; forward 10, backward 90	
Power head speed (rpm)	0~140	High: 0-148; low: 0-48	
Max. power head torque (KN.m)	8	3	
Max. power head lift force (KN)	65	30	
Max.power head rate feeding force (KN)	12		
Power head lift / acceleration (m / min)	Rotary spray details to adjust the speed 0.06-0.9 / 1.8		
Power head rapid lift speed (m / min)	0 - 22 / 0 - 28		
Power head stroke (mm)	3400	3500	6500
Hoist lift force (T)	1		
Input power (KW)	55 + 11		
Walking speed (km/h)	1.5		
Climbing capacity (°)	30		
LxWxH (operative mode) (mm)	5100x3300x23000	2600x1800x4600	2880x1800x8145
LxWxH (transport mode) (mm)	5600x3000x2700	1780x1800x4600	577x1800x2352
Weight (T)	7.5	2.8	5.75





# High pressure rotary injection equipment

## Crawler full hydraulic rotary jet drilling rig (customization)

Soft foundation processing equipment



Model	CFHRJD-3			
Power unit	Max. Pass hole diameter (Φ mm)		94	
	Gear	Speed (rpm)	Torque (KN.m)	
	1	0~32	13.2	
	2	0~132	3.2	
	3	0~252	1.7	
4	0~500	0.9		
Oil chuck	Spring clamp hydraulic opening			
Max. stroke of power head (mm)	4000			
Max. Power head lifting force (KN)	120			
Power head rate feeding pressure (KN)	60			
The wing angle of main swing mechanism (°)	-18~18			
Ring tower swing Angle (°)	-90~90			
Body frame rotation (°)	360 (Hydraulic drive)			
Power head slow lift (m / min)	The fine adjustment speed is 0.06~0.8 / 1.6			
Power head rapid lift (m / min)	0~8 / 0~11.8			
Diesel engine	Brand	Model number	Power(KW)	Speed (rpm)
	cummins	4BTA3.9-C125	93	2200
Drill tower expansion (mm)	1500			
Drill tower height (m)	14			
Mast height (m)	12			
Drilling rod length (m)	16			
Main pendulum mechanism slide distance (m)	800			
Chassis climbing ability (°)	15			
Chassis walking speed (km / h)	1			
LxWxH(mm)	Operative status	9000×2800×19000		
	Travel position	8600×2800×3200		
Weight (T)	2.6			



# High pressure rotary injection equipment



## Tunnel horizontal rotary jet drill



Model	THRJR-15			
	Gear 1	Gear 2	Gear 3	Gear 4
Power head rotation speed rpm)	0 ~ 30	0 ~ 65	0 ~ 138	0 ~ 269
Mast pitch angle (°)	15			
Mast swing angle (°)	-5 ~ 5			
Upper arm rotation angle (°)	-120 ~ 120			
Feed stroke (m)	14			
Max. Torque (KN.m)	17(Swing power head)			
Max. windlass feed force (KN)	75			
Max. windlass back to drag force (KN)	75			
Max. operation height (m)	8.8			
Max. / mini. turning radius (m)	4.7 / 2.7			
Power (KW)	110 Electric motor (Equipped with a 183 kW deutz diesel generator set)			
LxWxH (mm) (Travel position)	13500x2800x3430			
Weight (T)	About 50			

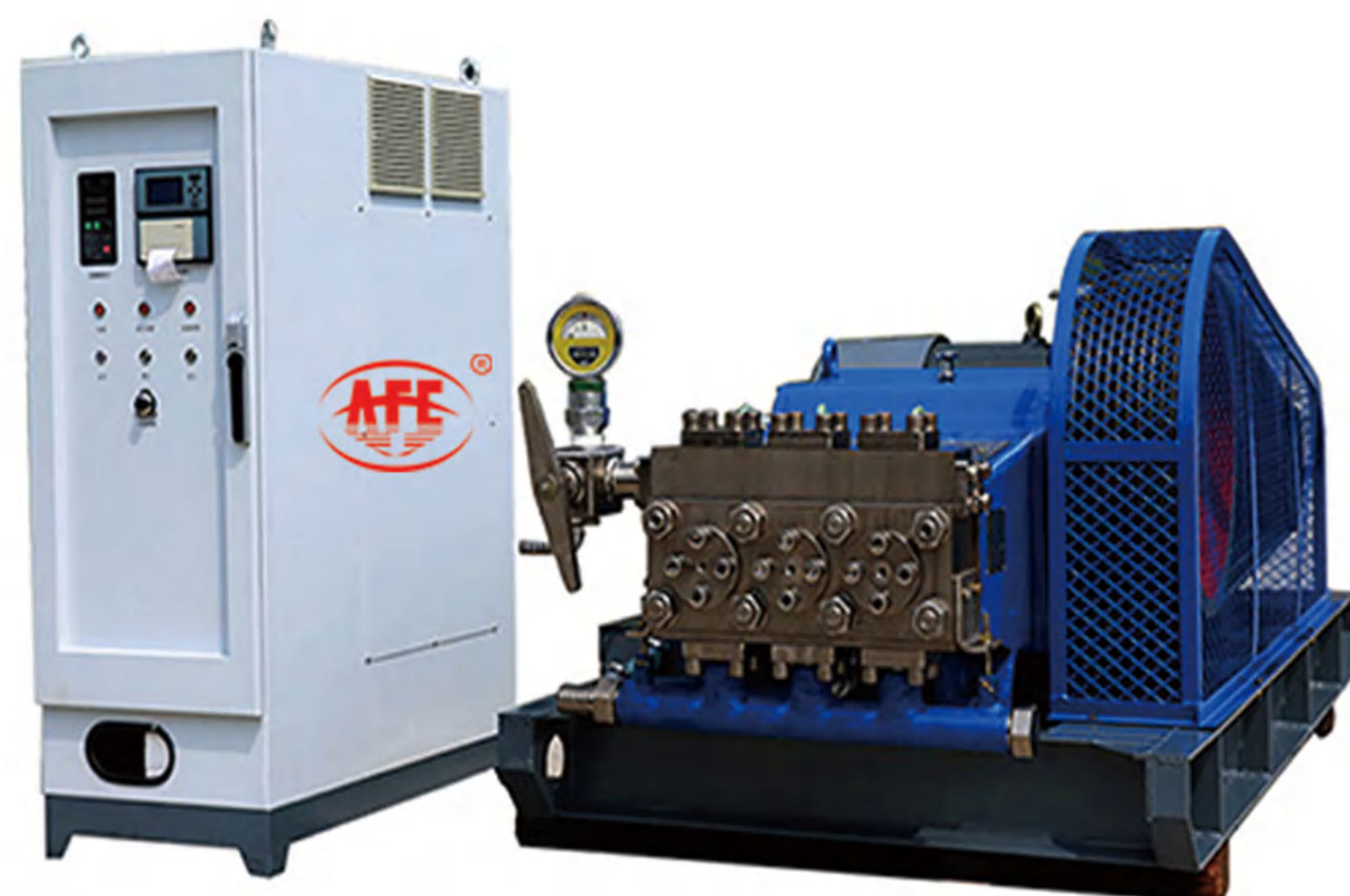


## Double-liquid frequency conversion high-pressure grouting pump



Model	DFHGP55	DFHGP90	DFHGP132
Plunger diameter (Φ mm)	45(55)	45(55)	60(65)
Plunger stroke (mm)	120	120	100
Max. flow rate (l / mm)	114(160)	114(160)	150(170)
Max. pressure (Bar)	300(200)	450(300)	500
Media flow ratio	2:1		
Motor power (kw)	55	90	132
Inlet diameter (Φ mm)	50		
Outlet diameter (Φ mm)	25		
Weight (T)	1.45	2.2	2.9
LxWxH (mm)	2348X1056X826	2490X1196X915	2673X1546X1100

## Frequency conversion high-pressure grouting pump



Model	FCHGP55	FCHGP90	FCHGP132
Plunger diameter (Φ mm)	45/55	45/55	60/65
plunger stroke (mm)	120	120	100
Max. flow rate (l / mm)	114/150	114/160	150/170
Max. pressure (Bar)	300/220	500/320	500
Motor power (kw)	55	90	132
Rated voltage (V)	380		
Rated current (A)	103	161	240
Inhalation height (m)	2.5		
Inlet diameter (Φ mm)	50/60	50/60	50
Outlet diameter (Φ mm)	25	19/25	19
Weight (T)	1.45	3.3	2.9
LxWxH (mm)	2348X1056X826	2580X1280X1020	2673X1546X1100



## Foundation reinforcement pump



Model	FRP20	FRP30	FRP50	FRP60
Plunger diameter (Φ mm)	45/55	60/65	70	85
Plunger stroke (mm)	120	100	135	152.4
Max. Mud flow rate (l / min)	90/130	125/146	175	240
Max. pressure (Bar)	500/340	500/400	450	450
Motor power (kw)	90	132	160	200
Inlet diameter (Φ mm)	38		50	60
Outlet diameter (Φ mm)	25			32
Weight (T)	3.25	4.6	5.95	7.2

## Transit mixer



Model	TM10	TM30	
Power (KW)	25	39	
Weight (T)	3	4.7	
LxWxH (mm)	4000X2800X1850	6000X2300X2800	
Pulping capacity (m <sup>3</sup> / h)	10	30	
Agitating vessel	volume (m <sup>3</sup> )	1.2	2
	Power (KW)	7.5	11
Pulp storage bucket	volume (m <sup>3</sup> )	1.4	2.5
	Speed (rpm)	375	370
	Power (KW)	5.5	
Water pump	Rate of flow (m <sup>3</sup> /h)	15	80
	Speed (rpm)	25	22
	Power (KW)	3	4
Air compressor	Rate of flow (m <sup>3</sup> /h)	0.25	0.36
	Power (KW)	2.2	3





MEDR-6 Multifunctional engineering drilling rig



MEDR-6A Multifunctional engineering drilling rig

Model	MEDR-6	MEDR-6A		
Drilling depth (m)	50~200	50~200		
Max. borehole diameter (Φ mm)	50~200	100~300		
Max. drilling rod diameter (Φ mm)	50~89	60~89x2500		
Power head speed (rpm)	Low speed :0~60; high speed: 0~120	Ordinary power head	Low: 8~45 ; high:16~90	
		High speed power head	Low:8 ~ 275 ;high:16 ~ 550	
Max. power head torque (KN.m)	4~ 8	3~ 6		
Power head stroke (mm)	3400	3000		
Max. feeding force (KN)	30	58		
Max. Pull out force (KN)	65	110		
Column slip stroke (mm)	900	1200		
Column pitch Angle (°)	10~90	0~90		
Column swing Angle (°)	±25	Elevation Angle: 35; Bow Angle: 16		
Horizontal hole height (mm)	High:3100; Low: 2100	High:3450; Low: 338		
Walking speed (km / h)	1.5			
Climbing capacity (°)	20			
Power take off	Motor power (KW)	Diesel engine(KW)	Motor power (KW)	Both oil and electricity (KW)
	55+5.5	59	55	55~59
Drill shape size (LxWxH)(m)	5x2.2x2.3	5.6x2x2.93		
Weight(T)	7.5	9.5		



## Crawler anchor stock drilling machine



CADR-5A

CADR-5B



CADR-5C

Model	CADR-5A				CADR-5B				CADR-5C
Drilling depth (m)	100~120								
Max. borehole diameter (Φ mm)	50~250								
Max. drilling rod diameter (Φ mm)	50	73	76	89	50	73	76	89	50, 73, 89
Drill tower inclination Angle (°)	Downdip: 0-90		updip: 0-10		Downdip: 0-90		updip: 0-10		0-90
Power head speed (rpm)	0~140				135	170	200	0~150	
Max. power head torque (KN.m)	8				9.5	7.5	6.5	6.5	
Power head stroke (mm)	3400								
Power head allowable added pressure (KN)	30								
Power head lift / pressure speed (m / min)	Rotary jet adjustment speed 0~0.75/1.5								
Power head up /down quickly speed (m/min)	0 ~ 13.3 / 0 ~ 26.2								
Column expansion (mm)									900
Lower bracket feeding stroke (mm)	900				900				
Horizontal lift height (mm)	1800~3300				Highest 3000		Lowest 2000		
Max. power head hoist force (KN)	65				100				60
Input power (KW)	55+11				55+12				55+18.5+2.2
Climbing capacity (°)									20
Walking speed (km/h)									0.8
LxWxH(transport status) (mm)	5000x2300x2000				4900x2300x2300				5450x2300x2250
Weight (T)	65				73				6.5



## Drilling fluid vibration screening



Model	DFVC45	DFVC140	DFVC160	DFVC120
Vibration locus	Straight line	Straight line	Straight line	Straight line
Processing efficiency (m <sup>3</sup> /h)	45	140	160	120
Vibration motor power (KW)	2x1.0	1x1.72	2x1.72	2x1.94
Number of screening nets (Pcs.)	2	4	5	6
Screen size (mm)	750x900	585x1165	585x1165	Up: 750x900; Down: 700x1250
Sieving area (m <sup>2</sup> )	1.35	2.73	2.73	Up: 2.03; Down:2.63
Shock strength (G)	≤7.5(adjustable)	≤7.5(adjustable)	≤7.5(adjustable)	≤7.3(adjustable)
Double-amplitude (mm)	5~7	5~7	5~7	5~7
Screening box adjustment Angle (°)	+2	-1~+5	-1~+5	-1~+5
Record the form of well tank	Upset type	Back type	Upset type	Back type
Weir height (mm)	714	915	915	1050
Explosion-proof criteria	ExdIIBT4/IECEX/ATEX			
Weight (Kg)	1041	1911	1911	2145
LxWxH (mm)	1842x1670x1078	2990x2020x1437	3200x2020x1439	2749x2020x1574



# Mud treatment equipment



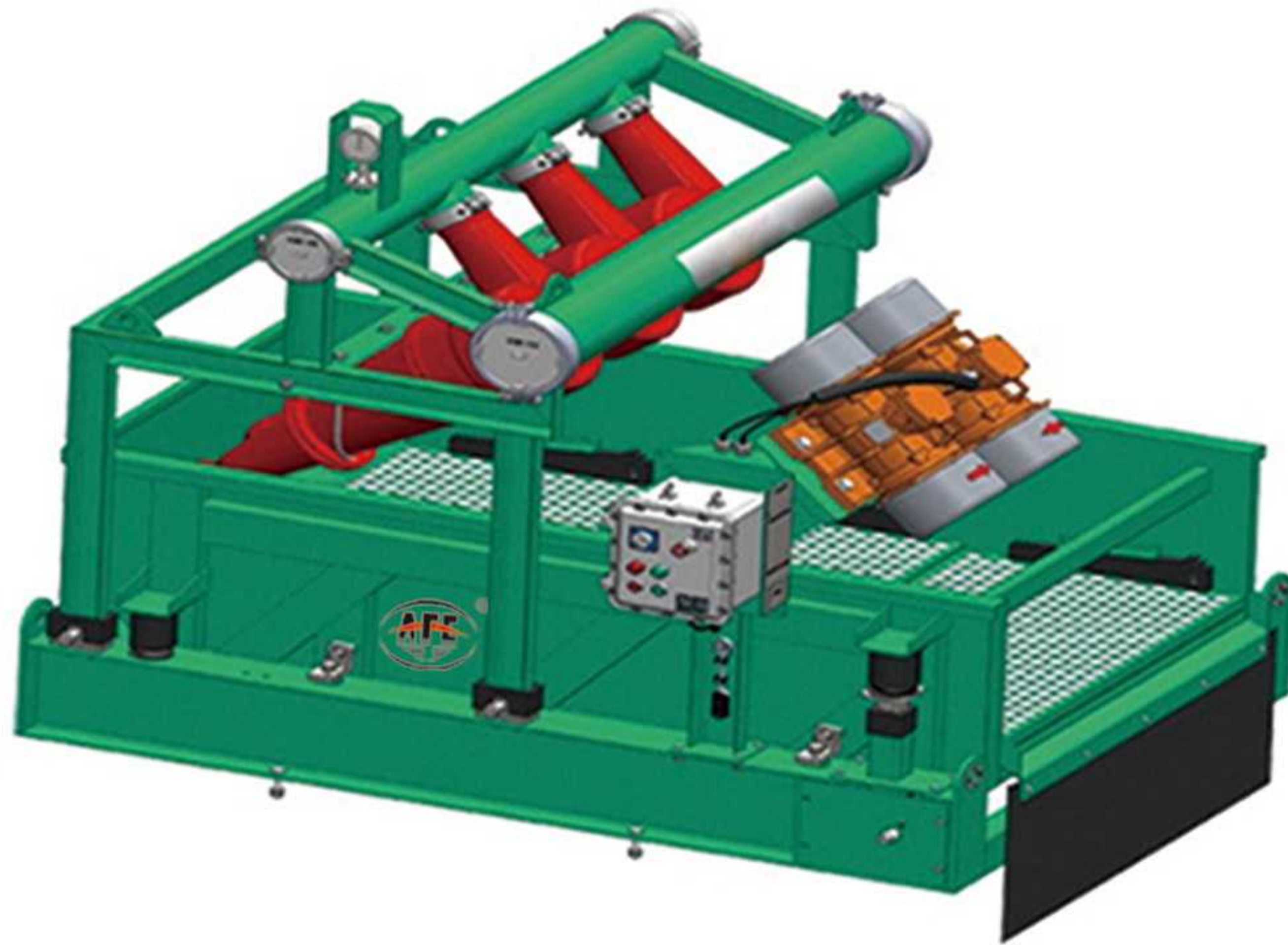
## Mud cleaner



Model	MC120	MC240	MC360
Processing efficiency (m <sup>3</sup> /h)	120	240	360
Sander-cyclone size (inches)	10	10	10
Number of sander cyclone (pcs.)	1	2	3
Sander-cyclone size (inches)	4	4	4
Number of sander cyclone (pcs.)	8	12	16
Operating pressure (Bar)	2.5 ~ 4.0	2.5 ~ 4.0	2.5 ~ 4.0
Size of the grouting mouth	DN150		
Size of the slurry outlet	DN200		
Bottom stream screening type	BS594	BS594	BS594
Vibration locus	Straight line	Straight line	Straight line
Vibration motor power (KW)	2x1.72	2x1.72	2x1.72
Number of screening nets (Pcs.)	4	4	4
Screen size (mm)	586x1165	586x1165	586x1165
Sieving area (m <sup>2</sup> )	2.73	2.73	2.73
Shock strength (G)	≤7.5(adjustable)	≤7.5(adjustable)	≤7.5(adjustable)
Double-amplitude (mm)	5~7		
Screening box adjustment Angle (°)	-1~+5		
Explosion-proof criteria	ExdIIBT4/IECEX/ATEX		
Weight (Kg)	1930	2285	2378
LxWxH (mm)	2462x2042x2147	2707x2042x2147	2707x2042x2147



## Desander



Model		MD-I	MD-II	MD-III	MD-IV
Processing efficiency (m <sup>3</sup> /h)		120/240 (528/1056GPM)	240 (1056GPM)	360 (1584GPM)	240/360 (1056/1584GPM)
Sander-cyclone size (inches)		10			
Number of sander cyclone (Pcs.)		1/2	2	3	2/3
Operating pressure (Bar)		2.5~4.0			
Size of the grouting mouth		DN150			
Size of the slurry outlet		DN200			
Match the bottom Flow screening parameters	Bottom stream screening type	BS752	BS703		
	Vibration locus	Straight line			
	Vibration motor power (KW)	2x1.0	2x1.72		
	Number of screening nets (Pcs.)	2	3		
	Screen size (mm)	750x900	700x1250		
	Sieving area (m <sup>2</sup> )	1.35	2.63		
	Shock strength (G)	≦7.1(adjustable)	≦7.5(adjustable)		
	Screening box adjustment Angle (°)	+2	-1~+5		
Explosion-proof criteria		ExdIIBT4/IECEX/ATEX			
Weight (Kg)		1059/1114	1845	1924	502/559
LxWxH (mm)		1676x1754x1822	2419x2131x1656	2419x2135x2066	2177x1000x1901



## Vacuum Degasser



Model	VD270	VD360
Tank diameter (Φ mm)	920	
Handling capacity (m <sup>3</sup> /h)	≅270	≅360
Vacuum degree (Bar)	-0.2~-0.4	
Processing efficiency	≧95%	
Power of main motor (KW)	22	37
Vacuum pump power (KW)	7.5	
Speed (rpm)	700	860
Explosion-proof criteria	ExdIIBT4/IECEX/ATEX	
Size of the grouting mouth	DN150	
Size of the slurry outlet	DN200	
Weight (Kg)	1779	1815
LxWxH (mm)	2100x1605x1729	2100x1605x1792

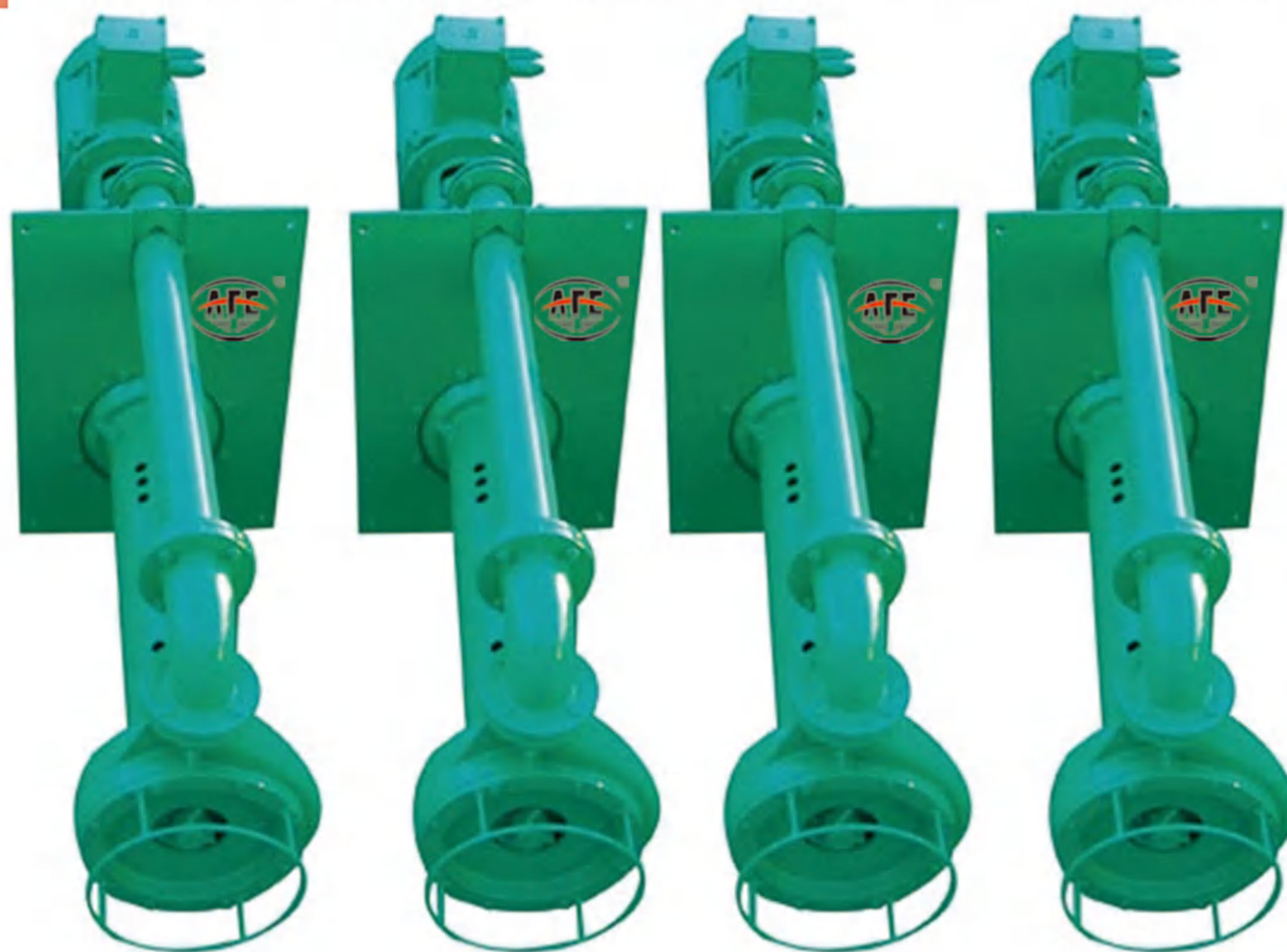
## Centrifugation of the deaerator



Model	CFD300
Rated internal diameter of liquid entrance (inches)	20
Rated internal diameter of liquid outlet (inches)	8
Rated internal diameter of the gas outlet (inches)	2
Max. passage amount of liquid material (m <sup>3</sup> /h)	300
Max. In addition to gas (m <sup>3</sup> /h)	30
Power of main motor (KW)	22
Fan power (KW)	2.2
Weight (Kg)	1375
LxWxH (mm)	1150x1055x2885

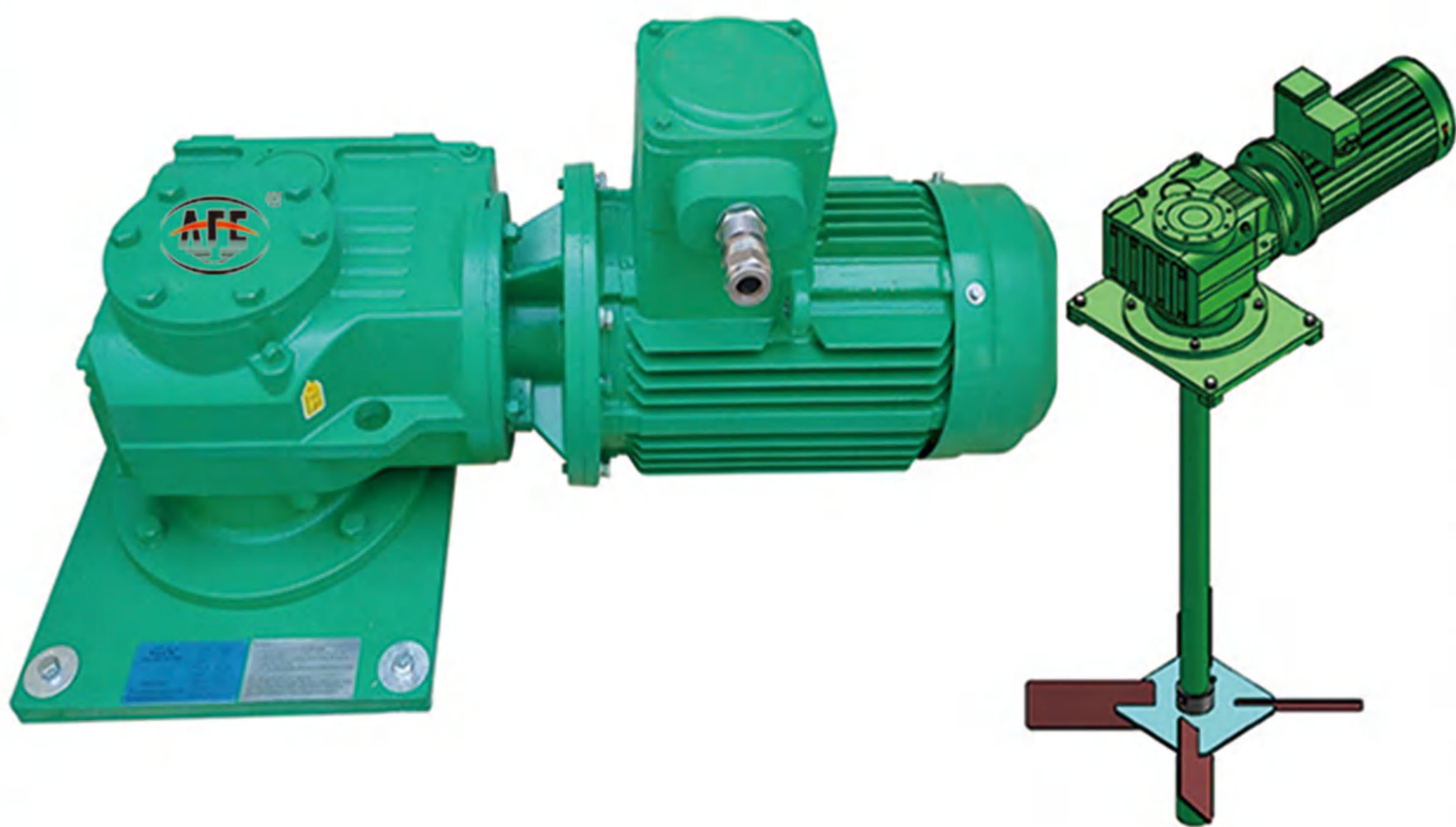


## Standard pulp pump under liquid



Model	Flow (m <sup>3</sup> /h)	Head of delivery (m)	Motor power (KW)	Motor speed (rpm)	Outlet size (mm)
SPP20	20	10	3	1450(50HZ);1750(60HZ)	DN50
SPP40	40	10	5.5	1450(50HZ);1750(60HZ)	DN50
SPP50	50	20	7.5	1450(50HZ);1750(60HZ)	DN80
SPP80	80	20	11	1450(50HZ);1750(60HZ)	DN80
SPP90	90	30	18.5	1450(50HZ);1750(60HZ)	DN100
SPP100	100	30	22	1450(50HZ);1750(60HZ)	DN100
SPP120	120	31	30	1450(50HZ);1750(60HZ)	DN100
SPP150	150	35	37	1450(50HZ);1750(60HZ)	DN100
SPP160	160	38	45	1450(50HZ);1750(60HZ)	DN100
SPP250	250	24	55	1450(50HZ);1750(60HZ)	DN150

## Slurry agitator

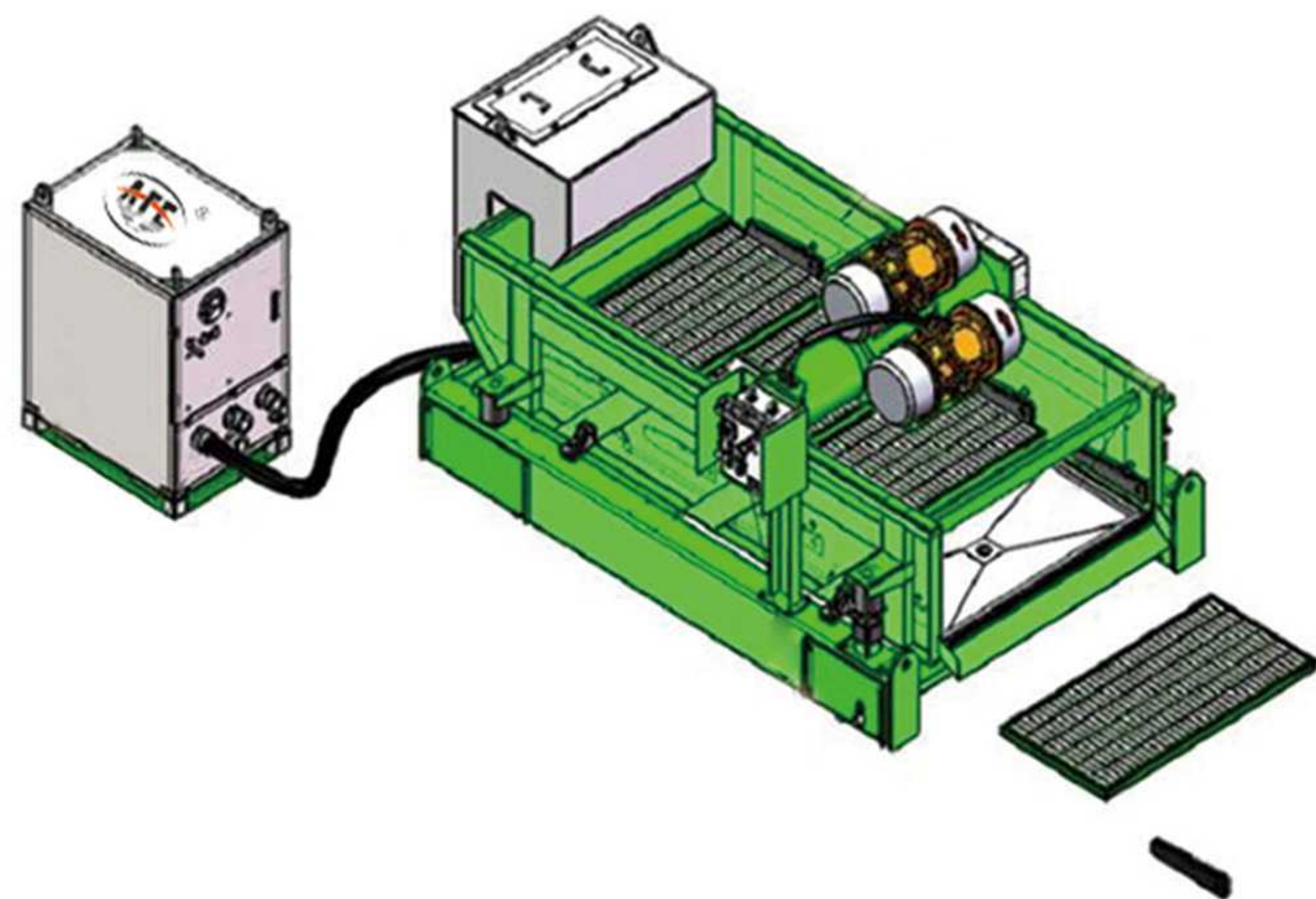
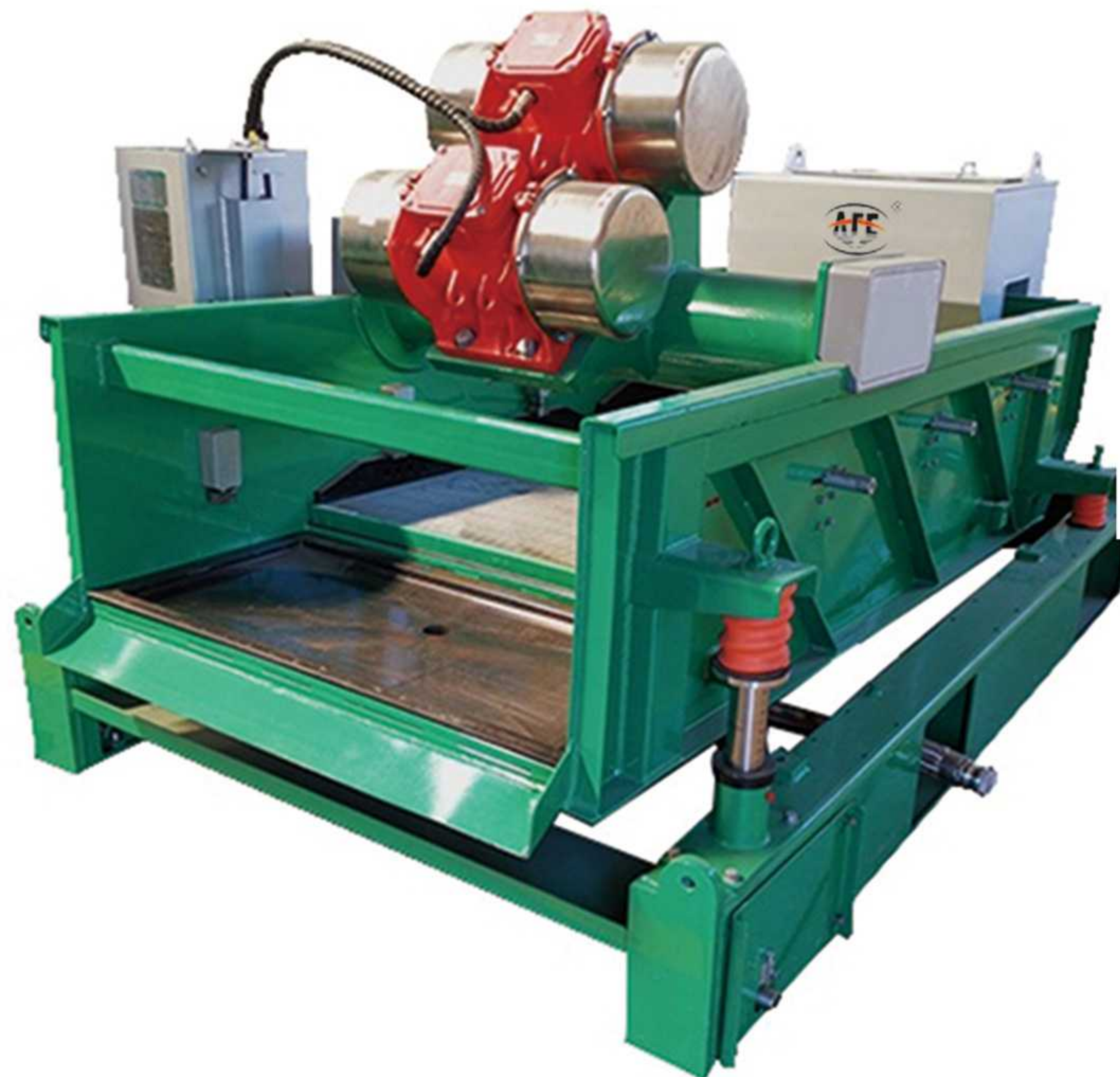


Model	Motor power (KW)	Motor speed (rpm)	Impeller diameter (Φ mm)	Transmission ratio	Explosion-proof sign	Weight (Kg)	LxWxH (mm)
SA030	3	1450(50HZ);1750(60HZ)	700	25:1	EXdIIBt4/ IECEX/ A-TEX	122	794x440x472.5
SA055	5.5		850			197	960x540x598
SA075	7.5		950(850+700)			247	1065x540x616
SA110	11		1050(950+700)			291	1187x540x621
SA150	15		1100(1050+850)			393	1287x640x683
SA185	18.5		1200(1100+950)			445	1307x640x698
SA220	22		1200(1100+950)			516	1307x640x698

Note: The above weight and external dimensions do not include mixing shaft, mixing shaft 15 kg / m.



## Vacuum vibration screening



Model	VVS03
Bleed pressure (Bar) (100~150 PSI)	7~10
Gas consumption (m <sup>3</sup> /min) (160CFM)	4.5
Maxi. number of vibrating screens (set)	3
Adapt mud	OBM,SBM,WBM
Mud recovery efficiency	30%~50%
Single-sieve slurry recovery volume (l/day)	2000~3000
Mud temperature (°C)	-15~+85
Into the pulp mouth size	2"
Into the pulp mouth quantity	3
Grout outlet size	2"
Grout outlet quantity	2
Inlet port size	1"
LxWxH (mm)	1058x730x1068
Weight (Kg)	350
Note: Pneumatic automatic control, no power supply, and the suction and exhaust time is adjustable	



## Decanter Centrifuge



Model	DC360A	DC360B	DC450	DC550
Barrate diameter (Φ mm)	360	360	450	550
Barrate length (mm)	1271	1271	1540	1800
Reference processing quantity (m <sup>3</sup> /h)	132GPM(30)	132GPM(30)	264GPM(60)	400GPM(90)
Limit speed (rpm)	3900	3900	3200	3000
Barrate regular speed (rpm)	3200	0~3200	0~2800	0~2500
Limit separation factor	3063	3063	2578	2719
Conventional separation factor	2062	0~2062	0~1973	0~1888
Diameters of the particles were separated (Φ um)	2~5	2~5	2~5	2~5
Differential mechanism speed (rpm)	40	0~40	0~35	0~45
Differential mechanism torque (KN.m)	3.5	3.5	7.5	12
Differential mechanism speed ratio	57:1	57:1	57:1	35:1
Power of main motor (KW)	37(50HP)	37(50HP)	55(75HP)	90(120HP)
Auxiliary motor power (KW)	11(15HP)	11(15HP)	22(30HP)	37(50HP)
Match the screw pump power (KW)	7.5(11HP)	7.5(11HP)	15(20HP)	22(30HP)
Explosion-proof criteria	ExdIIBt4 / IEC EX/ ATEX			
Explosion proof cabinet type	Standard explosion proof cabinet	PLC+Positive pressure, intelligent frequency conversion and explosion-proof cabinet		
Weight (Kg)	3500	3400	4580	5840
LxWxH (mm)	3260x1467x1352	3260x1467x1352	3824x1798x1317	4293x1978x1381

Note: The processing capacity of the above centrifuge is for reference only. For different mud conditions and different requirements for customer processing results, the processing capacity will be different.



# Mud treatment equipment



## Drilling fluid desilter

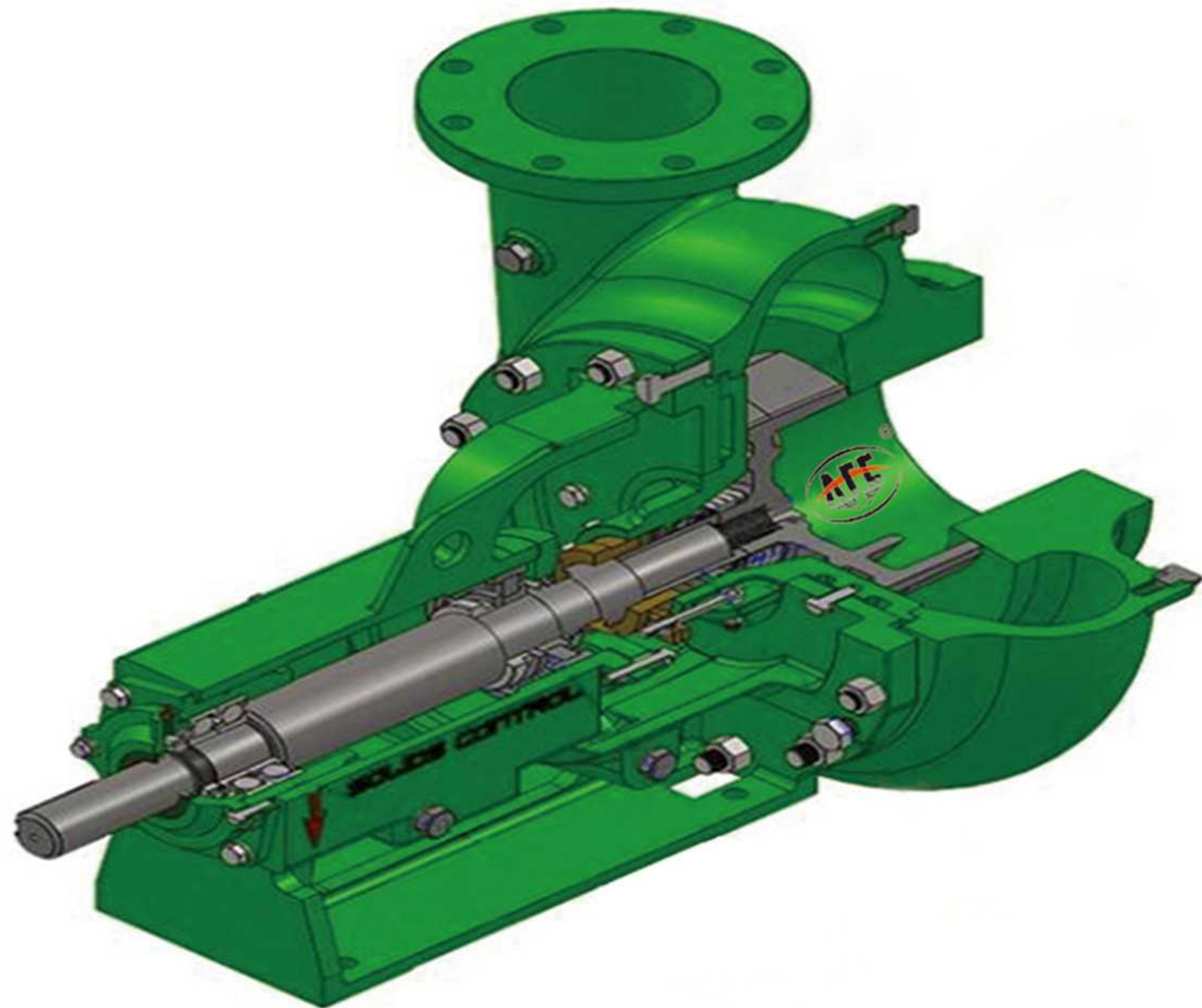


Model		DFD752-8N/12N	DFD703-8N/12N	DFD703-16N	DFDWS-12N/16N
Handling capacity (m <sup>3</sup> /h)		120/240(528/1056GPM)		360(1584GPM)	240/360(1056/1584GPM)
Deengaged swirler size (inches)		4			
Deengaged swirler quantity (Pcs.)		8/12		16	12/16
Operating pressure (Bar)		2.5~4			
Size of the grouting mouth		DN150			
Size of the slurry outlet		DN200			
Match the bottom Flow screening parameters	Bottom stream screening type	BS752	BS703		
	Vibration locus	Straight line			
	Vibration motor power (KW)	2x1.0	2x1.72		
	Number of screening nets (Pcs.)	2	3		
	Screen size (mm)	750x900	700x1250		N/A
	Sieving area (m <sup>2</sup> )	1.35	2.63		
	Shock strength (G)	≤7.1(adjustable)	≤7.5(adjustable)		
	Screening box adjustment Angle (°)	+2	-1~+5		
Explosion-proof criteria		ExdIIBt4/IECEX/A-TEX			
Weight (Kg)		1057/1097	1813/1839	1974	504/539
LxWxH (mm)		1676×1745×1719	2419×2150×1608	2419×2150×2126	2189×900×1511

Environmental protection equipment



## Sand pump



Model	Flow (m <sup>3</sup> /h)	Head of delivery (m)	Motor power (KW)	Motor speed (rpm)	Impeller diameter (inch)
SP8×6C-14	320	35	75	1450(50HZ); 1750(60HZ)	14
SP8×6C-12					12
SP8×6C-13	272	35	55		13
SP8×6C-11					11
SP6×5C-13	200	35	45		13
SP6×5C-10					10
SP6×5C-12	150	30	37		12
SP6×5C-9.5					9.5
SP5×4C-13	120	35	30		13
SP5×4C-11					11
SP5×4C-12	90	30	22		12
SP5×4C-10					10
SP4×3C-13	65	35	18.5		13
SP4×3C-12					12
SP4×3C-12	55	28	15		12
SP4×3C-10					10
SP4×3C-11	45	25	11	11	
SP4×3C-9.5				9.5	
SP3×2C-9	35	35	7.5	9	
SP3×2C-8				8	



## Centrifugation of the shear pump



Model	Flow (m <sup>3</sup> /h)	Head of delivery (m)	Motor power (KW)	Explosion-proof criteria	Weight((Kg)	LxWxH (mm)
CSP6x5C-550	155	32	55	EXdIIBt4/IECEX/A-TEX	965	1333×1000×931