



新福源精密制造

NEWFOTON PRECISION MANUFACTURING



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出口公司简介

辽宁新福源精密制造科技有限公司成立于2018年，注册资本1.2亿元人民币，坐落于东北老工业基地辽宁省鞍山市台安县台安镇台大路南工业园区，工厂总占地面积约16万平方米。

辽宁新福源精密制造科技制造有限公司主要产品有出口抽油机，钻机配套设备，钻机配套活动房系列，同时经营配套出口石油钻机业务。

公司产品远销美国、伊朗等10余个国家，核心产品为专业生产API标准常规游梁式抽油机，近年来累计向各界客户出口成套抽油设备1500余台，产品质量稳定，深受客户好评。

Brief Introduction of Company

Liaoning Newfoton Precision Manufacturing Technology Co., Ltd. was established in 2018 with registered capital of 120 million yuan. It is located in the Industrial Park of Tai'an Town, Tai'an County, Anshan City, Liaoning Province, the old industrial base of Northeast China. The factory covers a total area of 160,000 square meters.

The main products of Neofoton include export pumping units, drilling rig supporting equipment, drilling rig supporting activity room series, and supporting export oil rig business.

The company's products are exported to more than 10 countries such as the United States and Iran. Its core product is the professional production of API standard conventional beam pumping units. In recent years, it has exported more than 1500 complete sets of pumping equipment to customers from all walks of life, with stable product quality and high praise from customers.





公司厂房



产品装配车间



铆焊车间



剪板机、折弯机



校直机



滚板机



二氧化碳保护焊机



数控切割机

质量认证和API认证
Quality Certificates and API certifications



产品简介 Product introduction

Conventional beam pumping unit Features

Beam pumping unit has the features of reliable performance, simple structure, easy operation and maintenance and so on. Technical parameters meet the People's Republic industry standard of SY / T 5044 "beam pumping unit" and the American Petroleum Institute API standard, technology is mature.

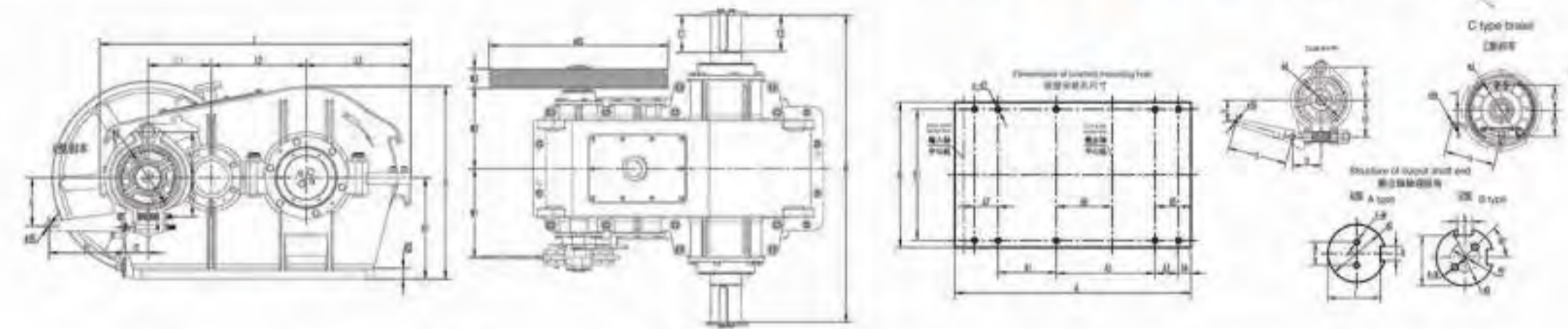
1. reasonable structure, smooth, low noise, easy operation and maintenance.
2. large carrying capacity, smooth operation, stroke per min high.
3. the reducer with herringbone involute or double circular arc tooth profile gears, high precision, long life.
4. can be used on the horse head turned, hung or tilt one of three forms.
5. frame stability, hind legs can be apart for easy transport.
6. brakes with external-brake, with a safety device, flexible operation, brake quickly, safely and reliably.

常规游梁式抽油机主要特点

游梁式抽油机具有性能可靠、结构简单、操作维修方便等特点。技术参数符合中华人民共和国行业标准SY/T 5044《游梁式抽油机》和美国石油协会 API标准，技术成熟。

- 1、整机结构合理、工作平稳、噪音小、操作维护方便；
- 2、承载能力大，运转平稳，冲次高；
- 3、减速器采用人字型渐开线或双圆弧齿形齿轮，加工精度高，使用寿命长；
- 4、驴头可采用上翻、上挂或侧转三种形式之一；
- 5、机架稳定性好，后腿可拆开，方便运输
- 6、刹车采用外抱式结构，配有保险装置，操作灵活、制动迅速、安全可靠；





出口机型减速机技术参数 Reducer Parameters for Export 单位 Unit : (mm)												
型号 Model	25	40	57	80	114	160	228	320	456	640	912	1280
整机参数 Whole Machine Parameters												
T(IN · LBS)	25000	40000	57000	80000	114000	160000	228000	320000	456000	640000	912000	1280000
传动比 Transmission ratio	31.6	33.12	30.25	31.832	28.355	28.506	28.873	28.807	28.255	28.363	28.79	28.68
L	850	935	1037	1080	1330	1480	1610	1830	1920	2010	2317	2713
L1	165	180	200	225	250	300	350	370	400	400	440	550
L2	235	270	300	325	400	450	500	580	600	650	790	900
L3	305	340	376	382	474	498	550	632	670	710	832	913
H	517	592	666	668	825	875	978	1142	1220	1267	1514	1675
H1	270	310	350	350	425	450	500	590	650	660	785	840
H2	30	30	30	42	40	40	55	60	60	60	60	60
底座安装孔 Seat Mounting Hole												
A	630	695	760	750	1050	1177	1334	1510	1580	1668	2002	2040
A1	260	300	330	300	350	430	430	460	450	545	700	355
A2	250	275	330	340	510	530	540	620	650	605	620	620
A3	/	/	/	/	/	/	155	185	250	285	380	160
A4	/	/	/	/	/	/	55	59	67	70	103	110
A5	60	60	50	48	65	72	/	/	/	/	/	/
A6	115	115	165	170	175	175	270	310	395	350	370	310
A7	/	/	/	/	/	/	/	/	/	/	/	590
B	420	470	460	510	700	750	780	880	1000	960		1375
B1	360	400	396	450	635	670	680	770	900	860	890	1235
n-d1	6-Φ22	6-Φ24.5	6-Φ23	6-Φ24.5	6-Φ32	6-Φ32	8-Φ35	8-Φ39	8-Φ48	8-Φ48	8-Φ48	10-Φ50
输入端参数 Input End Parameters												
d	200	200	250	250	300	300	300	400	400	400	500	600
刹车类型 Brake Type	B	B	B	B	A	A	A	A	A	A	A	A
h	165	165	185	185	230	230	230	280	280	280	335	405
h1	150	150	165	165	215	215	215	265	265	265	315	380
h2	165	165	185	185	185	185	185	235	235	235	290	355
i1	250	250	250	250	290	290	290	290	290	290	290	460
i2	145	145	144	144	110	110	110	110	110	110	110	130
d2	474.4	474.4	616.6	616.6	772.16	772.16	925.16	1027.16	1127.76	925.16	1280.2	1280.16
W1	296	324	314	343	387	427	445	521	605.5	585.5	626	855
W2	256	286.5	283	308	355	395	407.7	472.5	575.7	542.5	595.2	795
W3	42	61	80	80	85.7	111	111	136.5	136.5	162	187.3	187.3
带轮槽 Pulley groove	2B	3B	4B	4B	3C	4C	4C	5C	5C	6C	7C	7C
输出端参数 Output End Parameters												
W	986	1066	1092	1170	1500	1640	1744	1920	2230	2189	2280	2905
C1	108	118	138	135	197.5	192	212	210	240	240	235	260
C2	105	113	135	135	190	188	205	205	235	235	230	255
轴端类型 Shaft end type	A	B	B	B	A	A	A	A	A	A	A	A
D	80	90	90	90	130	150	175	175	200	200	200	230
P	/	/	50	45	60	60	70	70	110	110	110	110
M	/	/	1/2"	5/8"	3/4"	5/8"	3/4"	3/4"	3/4"	1"	1"	7/8"
i	71	79	81	81	119	138	160	160	185	185	185	210
b	22	25	25	25	32	36	45	45	45	45	45	56
楔键 Wedge key	C22× 18×105	C25× 20×110	C25× 14×135	C25× 16×135	B32× 18.5×170	C36× 20.5×185	C45× 25.5×200	C45× 25.5×200	C45× 38.5×230	C45× 38.5×230	C45× 38.5×230	C56× 32×255

注：①楔键斜度1:100。 Note: ②wedge bond angle 1:100
Reserve the right to change the parameters without prior notice.

齿轮与壳体加工 一流的加工设备 Gear & Housing First Class Processing Equipment



质量控制在 The quality control

公司对产品质量严格把关，严格执行美国石油协会API规范标准和制造和同时，主动学习国际相关行业标准，并引入企业内控标准当中。

The company strictly checks the quality of products, strictly implements API standard and manufacturing and meanwhile, actively studies international related industry standards, and introduces the internal control standards of enterprises.

公司生产的产品，从原材料进厂到成品发运，所有加工数据和检测结果不仅在产品合格证上体现，每个部件都打上永久性可追溯性编号。

The products produced by the company, from the raw materials to the factory to the finished products, all the processing data and test results are not only reflected in the product qualification certificate, each part has a permanent traceability number.



Welding technology 焊接工艺

Testing Result (Ex-Work No.) : SLS17-4001					Testing Result (Ex-Work No.) :			Testing Result (Ex-Work No.) :			Inspection			
No.	Testing Item	Unit	Specific Value or Reference	Testing Result	Conclusion	Specific Value or Reference	Testing Result	Conclusion	Specific Value or Reference	Testing Result	Conclusion	Unit	Type	SL912-365-100TH
19	Reducer Casting Gear Temperature	°C	Boiling Temperature (Bar) < 40 Mixing Temperature (Bar) < 35	22 12	Qualified	Operating flexible seal reliable, breaked at any way, operating force < 150	025	Qualified	0.8	0	Qualified	Unit	Environmental Condition	1/11/2017
20	Reducer Casting Gear		After test, inspect interior reducer casing gear no spot corrosion and tooth crack	Meet Requirements %	Qualified	Fluctuate and smooth	Meet Requirements	Qualified	4.27	4.27	Qualified	Unit	Environmental Condition	Outdoor
21	Surface Quality		Clear marks and outside paint film no peeling, thin, crack and porosity	Meet Requirements %	Qualified	Excessive average irregularity and light	Meet Requirements	Qualified	0.07	0.07	Qualified	Unit	Environmental Condition	Outdoor
18	Reducer Casting Gear Tooth Contact Spotted					High speed class 1 : < 0.27451 Low speed class 1 : < 0.25451	0.27 0.24	Qualified	0.6	0	Qualified	Unit	Environmental Condition	Outdoor
						Along tooth length : > 80% Along tooth topness : > 80%	82% 81%	Qualified	0.6 0.7	0 0	Qualified	Unit	Environmental Condition	Outdoor

Testing Process 测试流程

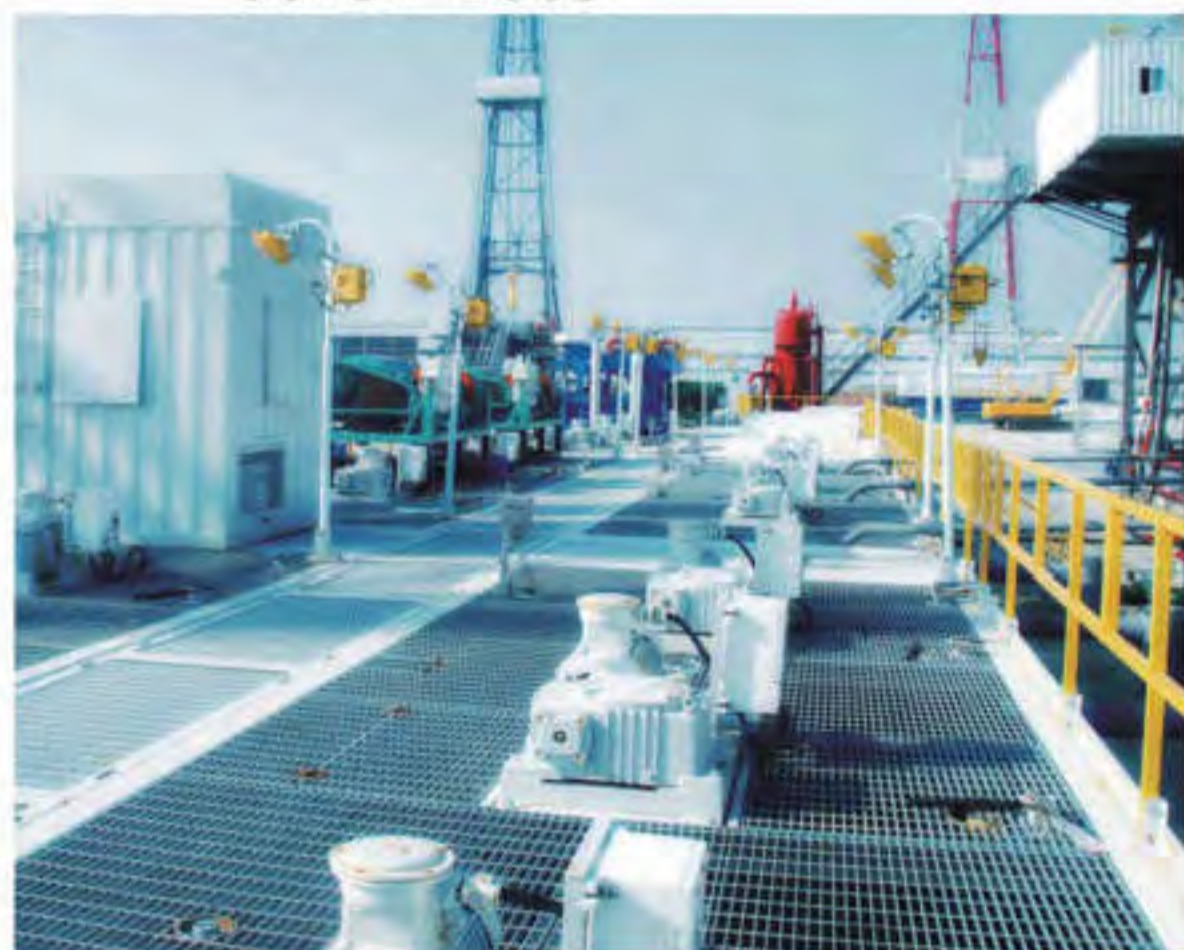
公司生产的产品，从原材料进厂到成品发运，所有加工数据和检测结果不仅在产品合格证上体现，每个部件都打上永久性可追溯性编号。

Trial run of beam pumping unit Final inspection record					Trial run of beam pumping unit Final inspection record				
Project	Quality responsible person (manufacturer)	Inspection date	Remarks	Inspection item	Standard requirements	Remarks	Qualified judgement		
Whole machine and Main components				1. Machine running stability	Stable and reliable, no abnormal noise				
Whole machine				2. Overhaul stability	The overhaul shall not shake				
Reducer				3. Connection reliability	Each connection is reliable, not loose				
walking beam				4. Vertical amplitude of support	It should be amplitude	meet			
Hornhead				5. Horizontal amplitude of support	It should be amplitude	meet			
Polysart				6. Hornhead position	It should be position with 0.5mm	meet			
equalizer beam				7. Hornhead adjust	It should be adjust	meet			
pitman arm				8. Brake mechanism reliability	Ensure the brake can reliably brake when the crank at any position, operating force shall not exceed 500N, when release the brake, the brake force and the brake band shall not have any contact				
Cylinder tube				9. The contact area between the polished shaft of the reducer and crank connecting rod joint	The upper and lower contact area should be smooth, and the contact area is more than 80%				
left crank arm				10. Oil temperature of motor	Oil temperature shall be normal 50°-100° (ambient temperature of the oil pool is 15°)				
right crank arm									
left wrist pin									
right wrist pin									
crank shaft									
Manded									

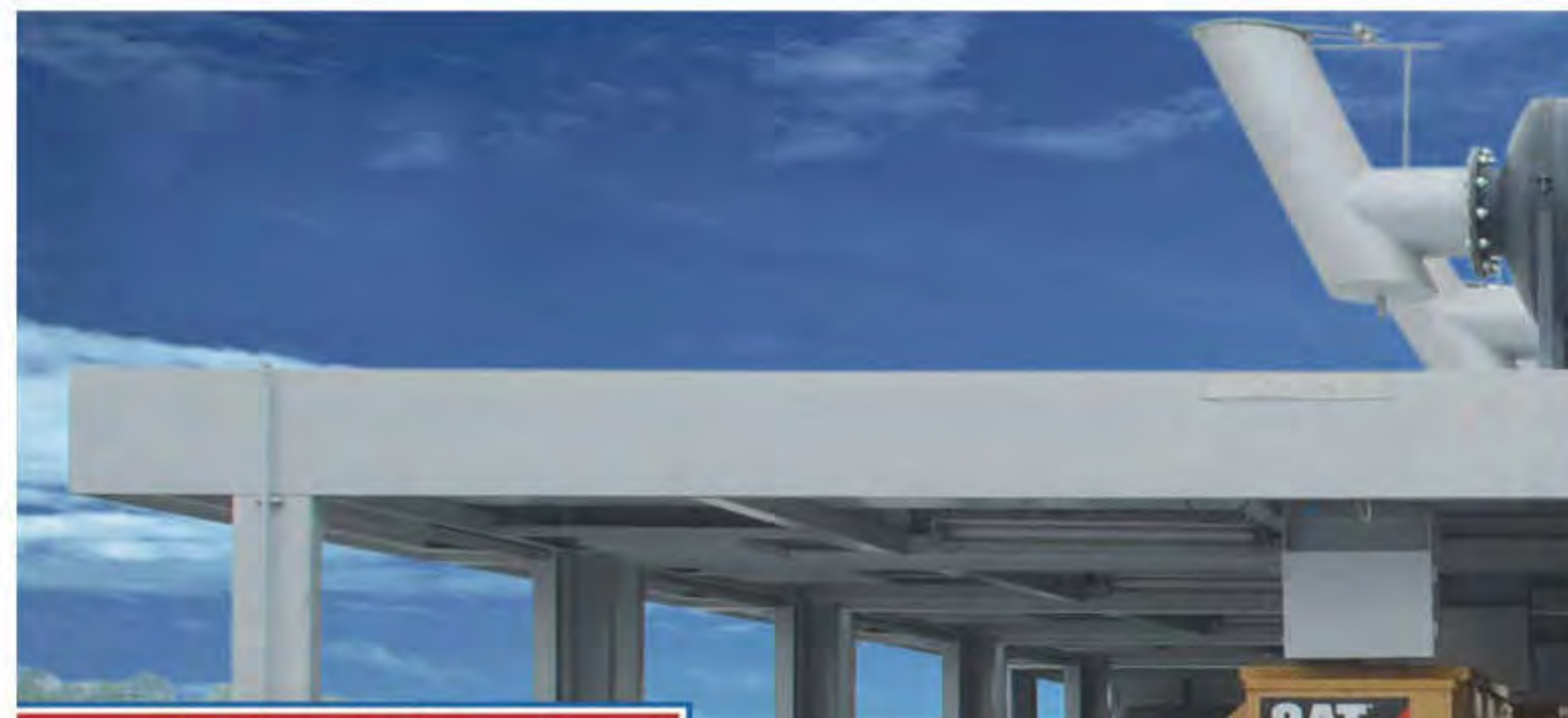
Final inspection 最终检验

Serial number	Inspection item	Standard requirements	Remarks	Qualified judgement
1	Painting	Light to color, full coverage, apparent appearance, neat and uniform		
2	Exposed metal surface	Smooth		
3	Assembly and weldment	The connection is reliable, beautiful and generous, the welding seam is smooth, the environment is not more than 2mm, the undercut depth is not more than 0.5mm, the appearance is neat, the edge length is not greater than the height of the weld (1.5), there should be no cracks, pores, through, inclusions, and other defects, such as the height of the appearance of the flange should be measured by caliper		
4	Flaring	(Uniform, beautiful, light, smooth, no cracks, bubbles and other welding phenomenon, no leakage point)		
5	Welding joint	Meet, uniform and light, there should be no cracks, pores, through and other defects		
6	Welding surface	Meet, beautiful, smooth, transition part		
7	Appearance surface	Meet, smooth and beautiful		

其它业务
Other Bets



钻机配套泥浆循环罐
Mud circulating tank



柴油机发电房
Generator set house



辅助发电气源房
Auxiliary air source house

其它业务
Other Bets



发电机房组是与美国卡特彼勒柴油发电机配套，供大、中型陆地钻机使用的优秀动力设备。
Generator house, which is suitable for Caterpillar diesel generator, makes one part of power system for large and medium-sized land rigs



其它业务
Other Bets

