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品质卓越 值得信赖
EXCELLENT QUALITY AND TRUST WORTHY

Enterprise Brief Introduction

Hebei Jerry Pump Co., Ltd. A PCP experts

Hebei Jerry Pump Co., Ltd. (Original Yutian Kelian Industrial Co., Ltd.) has many years experience for the PCP, anti-scaling wall thickness PCP, Even-thickness Wall PCP ,sand-seizure proof PCP , single screw conveying pump(G-type series). We also supply Top Drive , Special anchor for PCP, VFD cabinet , and other down-hole tools too!

Today, Hebei Jerry offers the largest range of Progressing Cavity oil well pumps. Hebei Jerry produces its own elastomers. All of the engineering and technical personnel in the Company have many years of experience in the research and design of the petroleum equipment and are in rich theoretical basis and practice.

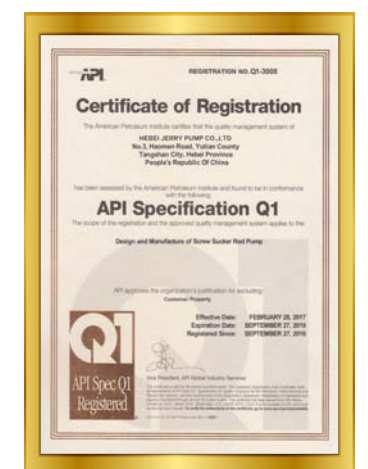
For many years, Hebei Jerry has operated and maintained a sound quality control policy. Our ISO 9001 , API standard remains a guarantee of reliability and quality.

Our products are widely used in domestic CNPC, Sinopec, CNOOC for the oil and gas engineering, and have been exported to Egypt, Oman, Venezuela, Kazakhstan, Chad and other countries.



Qualification Certificate

All the way till On the top of the times



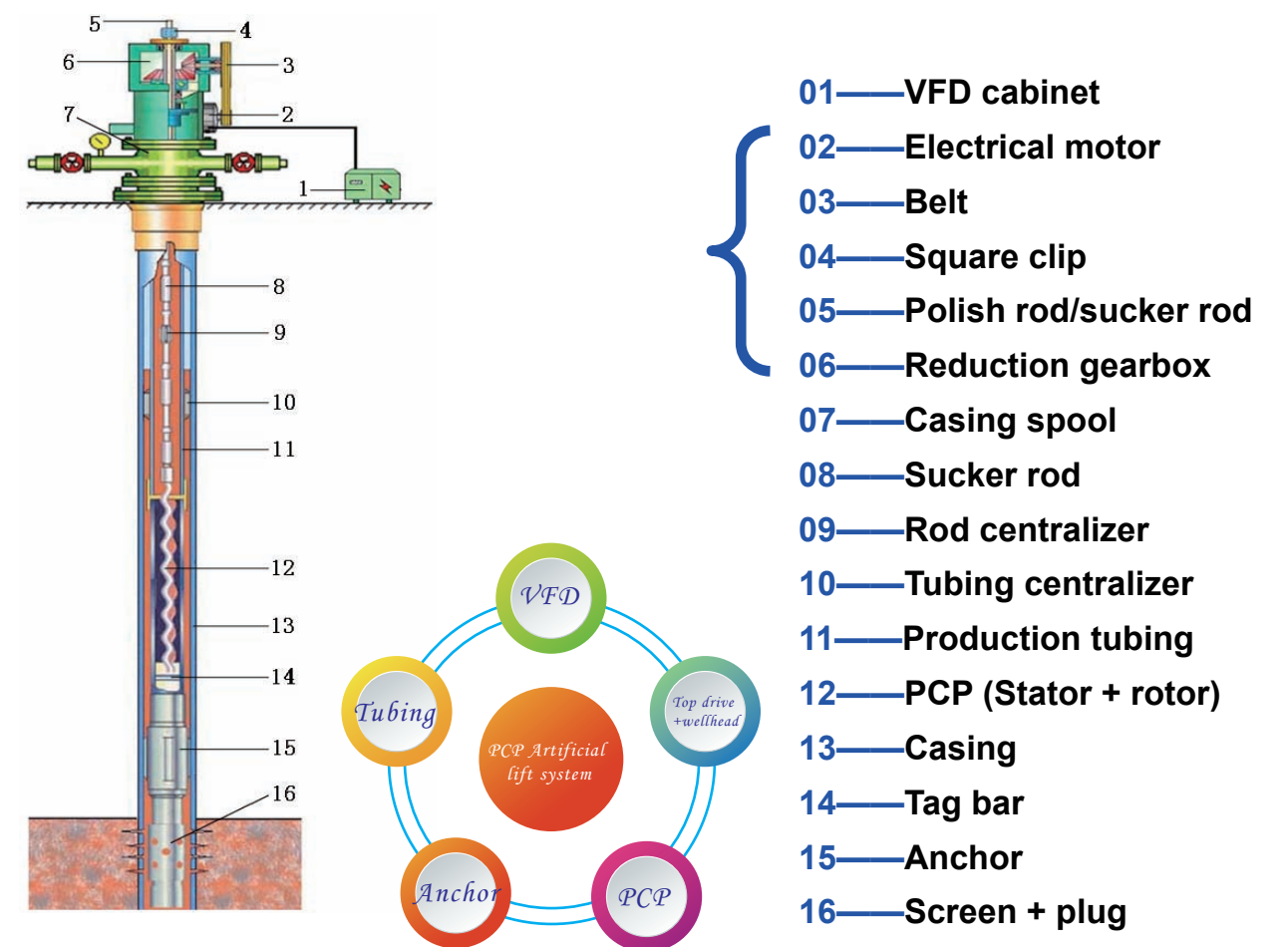
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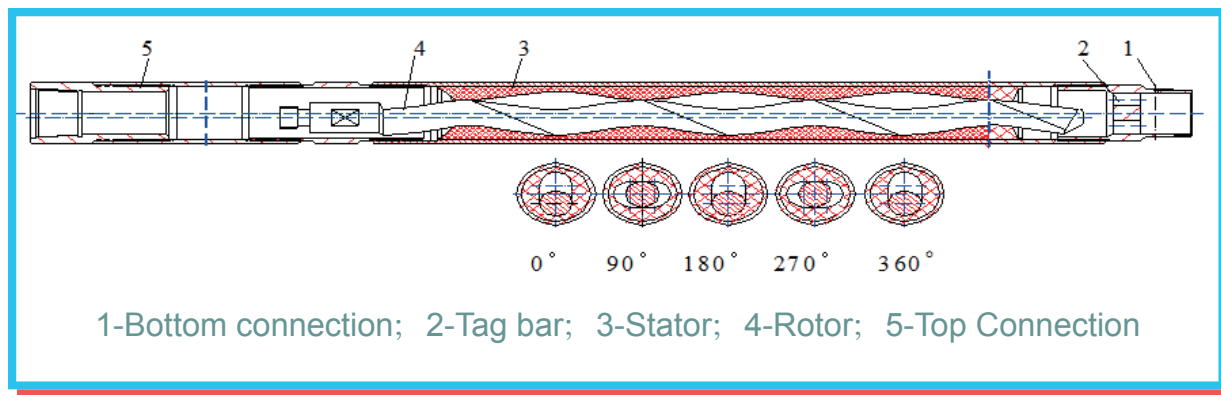
PCP PUMP

Ground Drive PCP Artificial Lift System

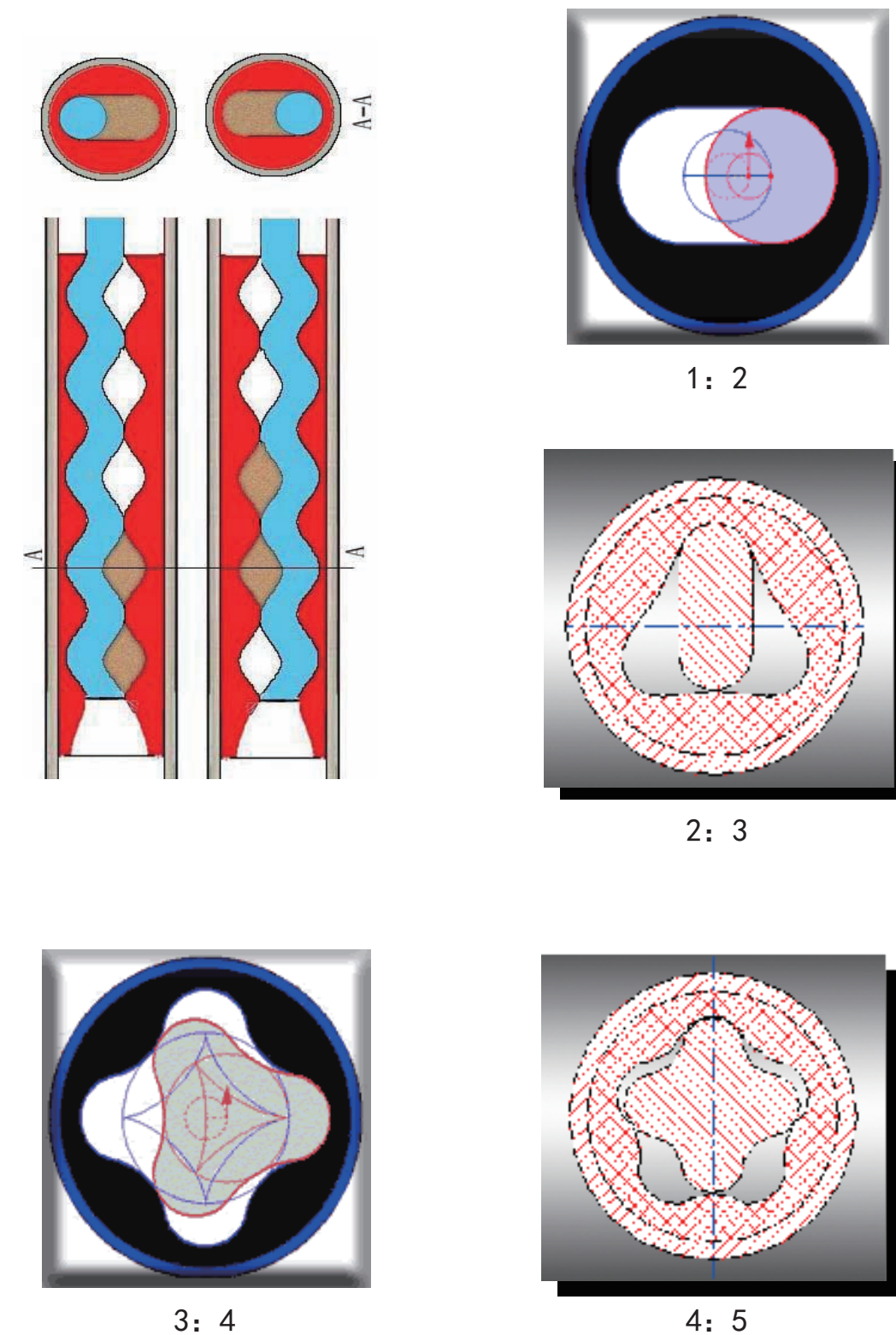
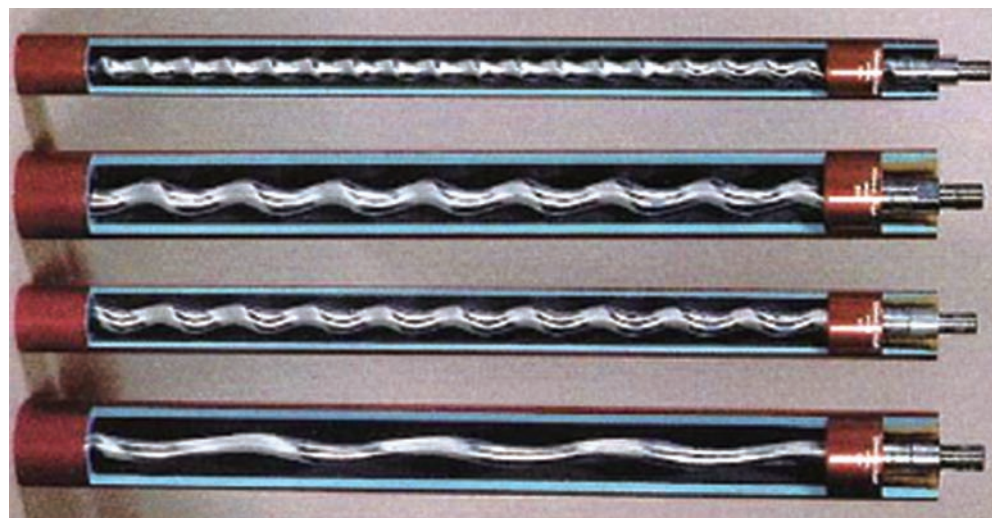


The Down-hole PCP Composition

The down-hole PCP consists of a stator and a rotor. The stator consists of a steel jacket and a rubber bushing. The rotor is made of alloy steel rods that have been finished, chromed and polished. The rotor has two types of hollow rotors and solid rotors.



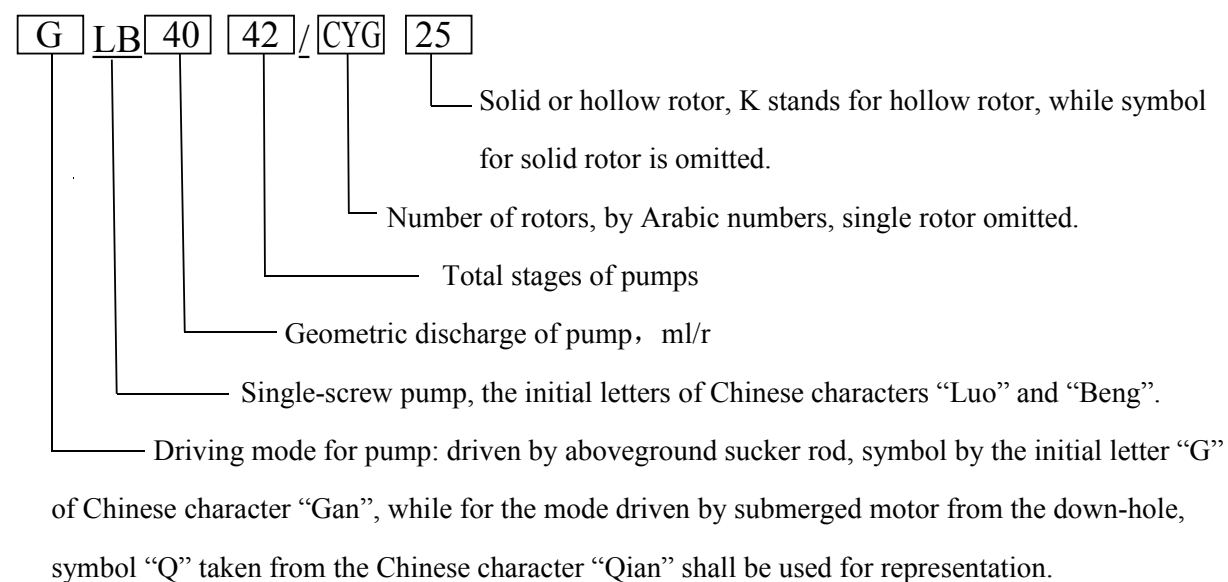
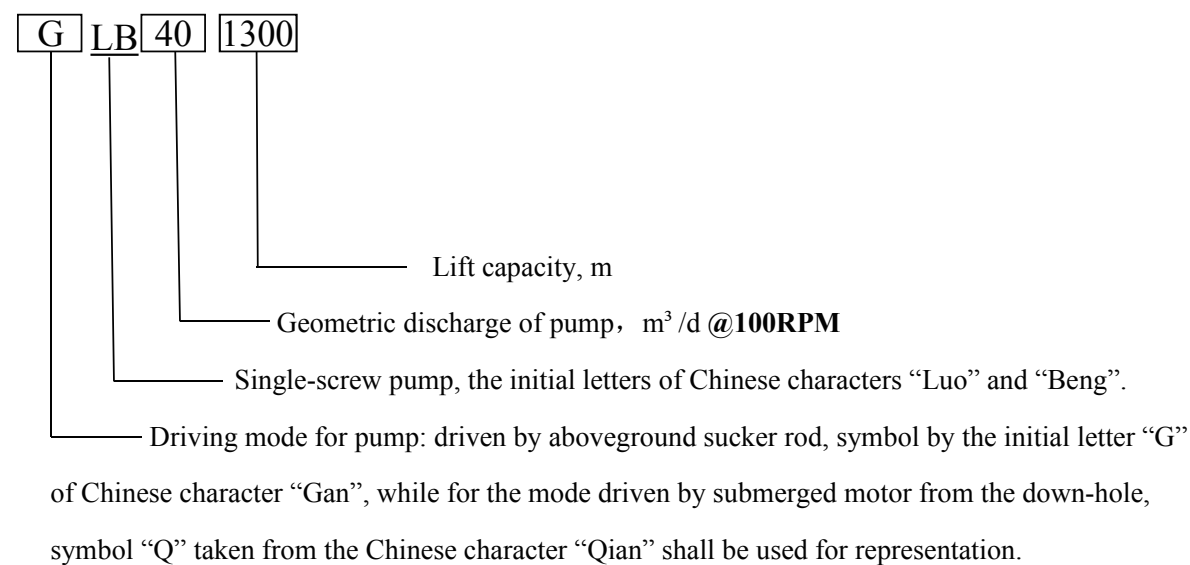
Hebei Jerry Down-hole PCP rotor series



Part of Hebei Jerry PCP Series

Down-hole PCP Products Series																
Model of pump		Max lifting capacity		Max pump pressure (MPa)	Theoretical discharge (100rpm)		Applicable viscosity (cp)	Applicable sand content (%)	Applicable well temperature(℃)		Rotor length		Stator length		Rotor connection size	Stator connection size
m1/r-grade	m³/d-Depth @100 RPM	m	ft		m³/d	BPD			NBR	HNBR	mm	ft	mm	ft		
GLB28-30	GLB4-1300	1300	4265	15	4	25.3	<8000	<2.5	≤90	≤148	4100	13	3650	12	CYG-22	2 7⁄8"
GLB28-40	GLB4-1800	1800	5906	20	4	25.3	<8000	<2.5	≤90	≤148	4850	16	4400	14	CYG-22	2 7⁄8"
GLB50-39	GLB7-1800	1800	5906	20	7.2	45.3	<8000	<2.5	≤90	≤148	5983	20	5533	18	CYG-22	2 7⁄8"
GLB80-41	GLB11-1800	1800	5906	20	11.5	72.5	<8000	<2.5	≤90	≤148	5815	19	5365	18	CYG-25	3 1⁄2"
GLB80-30B	GLB11-1300	1300	4265	15	11.5	72.5	<8000	<2.5	≤90	≤148	5855	19	5405	18	CYG-25	2 7⁄8"
GLB120-36	GLB17-1600	1600	5249	18	17.3	108.7	<8000	<2.5	≤90	≤148	5815	19	5365	18	CYG-22	3 1⁄2"
GLB180-21	GLB26-1000	1000	3281	12	25.9	163	<8000	<2.5	≤90	≤148	5920	19	5470	18	CYG-25	2 7⁄8"
GLB190-35	GLB27-1600	1600	5249	18	27.4	172.1	<8000	<2.5	≤90	≤148	6610	22	6160	20	CYG-22	4"
GLB250-16	GLB36-800	800	2625	10	36	226.4	<8000	<2.5	≤90	≤148	6130	20	5680	19	CYG-25	3 1⁄2"
GLB250-34	GLB36-1600	1600	5249	17	36	226.4	<8000	<2.5	≤90	≤148	6960	23	6510	21	CYG-29	4"
GLB300-26	GLB43-1300	1300	4265	15	43.2	271.7	<8000	<2.5	≤90	≤148	6465	21	6015	20	CYG-25	4"
GLB320-32	GLB46-1600	1600	5249	16	46	289.3	<8000	<2.5	≤90	≤148	6960	23	6510	21	CYG-29	4 1⁄2"
GLB380-29	GLB54-1500	1500	4921	15	54	339.7	<8000	<2.5	≤90	≤148	6960	23	6510	21	CYG-29	4 1⁄2"
GLB360-26	GLB51-1300	1300	4265	15	51.8	326.1	<8000	<2.5	≤90	≤148	7710	25	7260	24	CYG-25	4"
GLB500-20	GLB72-1000	1000	3281	12	72	452.9	<8000	<2.5	≤90	≤148	7230	24	6780	22	CYG-25	4"
GLB500-25	GLB72-1300	1300	4265	15	72	452.9	<8000	<2.5	≤90	≤148	7505	25	7155	23	CYG-29	M106×2
GLB570-26	GLB79-1300	1300	4265	13	79	496.9	<8000	<2.5	≤90	≤148	8760	29	8310	27	CYG-29	4 1⁄2"
GLB600-18	GLB86-900	900	2953	11	86.4	543.5	<8000	<2.5	≤90	≤148	7655	25	7205	24	CYG-29	4"
GLB800-18	GLB115-900	900	2953	11	115.2	724.6	<8000	<2.5	≤90	≤148	8785	29	8435	28	CYG-29	M106×2
GLB1100-15	GLB158-800	800	2625	10	158.4	996.3	<8000	<2.5	≤90	≤148	8802	29	8352	27	CYG-29	4 1⁄2"
GLB1200-14	GLB173-700	700	2297	9	172.8	1086.9	<8000	<2.5	≤90	≤148	8805	29	8455	28	CYG-29	M106×2
GLB1600-10	GLB230-500	500	1640	7	230.4	1449.2	<8000	<2.5	≤90	≤148	8750	29	8400	28	CYG-29	M106×2
GLB800-28 Double head	GLB115-1500 multiple thread screw	1500	4921	15	115.2	724.6	<8000	<2.5	≤90	≤148	8574	28	8580	28	CYG-29	2004/1/2
GLB1100-36 Double head	GLB158-1800 multiple thread screw	1800	5906	18	158.4	996.3	<8000	<2.5	≤90	≤148	8650	28	8861	29	CYG-29	2004/1/2
GLB1194-34 Double head	GLB171-1700 multiple thread screw	1700	5577	17	172.9	1081	<8000	<2.5	≤90	≤148	8650	28	8300	27	CYG-29	2004/1/2

Notation Model Illustration



Jerry PCP ALS Applied Conditions in Production

- Key Parameters**
- ① Lift distance > 7300ft
 - ② Well deviation during pump location ≤ 30°
 - ③ Production rate ≥ 0 BFPD
 - ④ Viscosity ≤ 8000mPa · s
 - ⑤ No casing deformation

- Minor Parameters**
- ① Submergence ≥ 100ft
 - ② Fluids sand content ≤ 5%
 - ③ Not much gas production
 - ④ It's better have watering condition on wellhead
 - ⑤ Scaling preventions
 - ⑥ Corrosion wells (for example, H₂S etc.) need special anti-corrosion PCP

Hebei Jerry Elastomer Section Guide

Type	Mechanical Properties	Resistance to Abrasives	Resistance Aromatics	Resistance H2S	Resistance CO2	Oprate temprature
Standard Nitrile	Excellent	Good	Medium	Good	Good	120℃
Soft Nitrile	Good	Excellent	general	Good	general	80 ℃
High Acrylonitrile	Good	Medium	Good	Good	Medium	100 ℃
Hydrogenated Nit rile	Good	Excellent	Medium	Excellent	Medium	150℃
Fluorocarbon	Medium	general	Very good	Good	Excellent	130 ℃

Hebei Jerry Series PCP Advantages

● **Lower capital costs** : The lack of expensive foundations, the simple construction and the compact surface drive unit minimises start-up costs or allows more pumps to be installed (and so more oil recovered) for the same capital outlay.

● **Lower running costs** : In most applications, typically a PC pump has a significantly higher overall mechanical efficiency than that available from alternative artificial lift methods such as Electric Submersible Centrifugal Pumps or Rod Pumps. The unit cost of fluid recovered is therefore reduced.

● **Installation cost is minimal** : The complete system can be installed by the service rig crew.

● **Low transportation costs** : The complete system can be delivered in a pick-up truck.

● **Reliability** : The simple construction has no standing or travelling valves to block and only one moving part downhole. The pump handles gas and solids without blocking and is more resistant to abrasive wear.

● **Efficiency**: PCP systems are simple in structure ,have very few moving parts, low hydraulic losses and high efficiency in performance. The overall efficiency is normally between 40% and 70%; compared to 30% efficiency for plunger pumping units and 35%for electrical submerged centrifugal pumps.

● **Typical volumetric efficiency of a “KeLian” down-hole pump system is 75%-95%.**

Pulsation-free pumping : In the formation near the bore hole will generate less sand production injection pumps from unconsolidated sand reservoirs. Constant flow production makes instrumentation easier.

Constant stress : on rod string with minimal stress fluctuation decreases the risk of fatigue failure and rod fall.

Operating Safety : The compact drive systems can easily be caged or set bellow grade, out of the reach of people and animals, for maximum operating safety. All moving parts are enclosed in metal guards or housings, and the drive heads are equipped with anti back spin devices to protect maintenance personnel during operation.

Long Life : Pumping systems are built to last. All above-ground moving mechanical components are suspended in place by heavy-duty lubricated bearings, ensuring smooth vibration-free performance.

Sand: efficient transport of oil/water mixtures with a high content of sand and /or gas. There will not gas lock the pump in the process of operation.

Positive displacement rate is controlled by speed and is not a function of pressure, although pressure affects efficiency.

Easy adjustment : Belt drive mechanisms or hydraulic controls make it easy to change the speed of PC pumps for varying well production rates. Variable speed devices and gear reducers can be installed to make speed adjustments easier and to extend the range of pumping speeds.

Simple maintenance : PCP systems are easy to maintain in the field. The surface drivehead contains only one set of lubricated bearings and other easily maintained components that do not require special tools or procedures. The drivehead packing is easily adjusted for extended packing and drive shaft life. Only one moving part down hole for reduced maintenance and workovers.

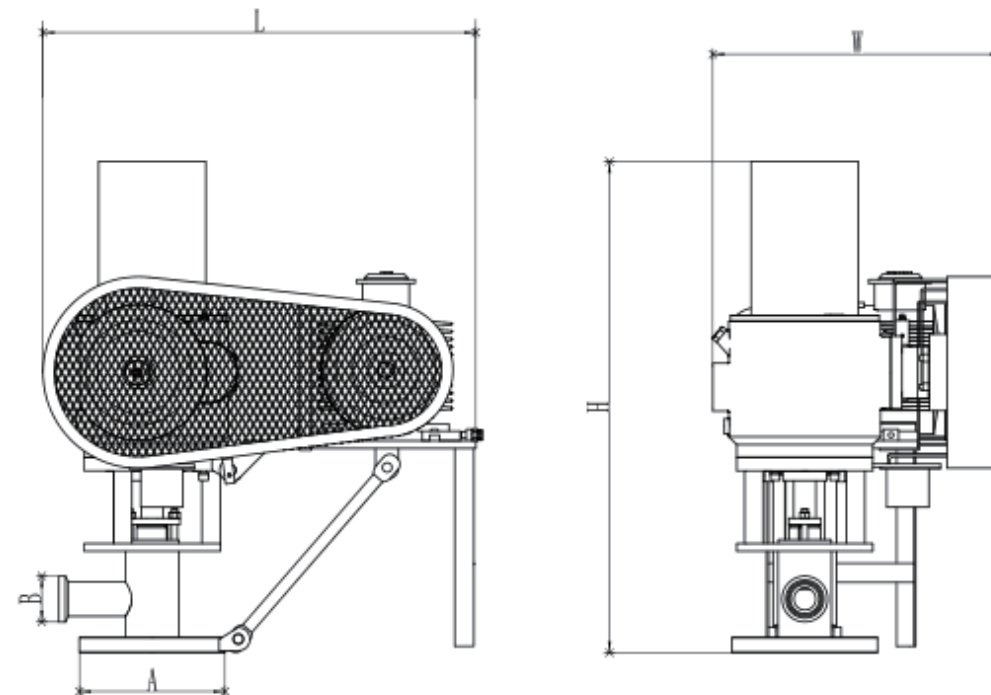
More environmentally acceptable : The low unobtrusive profile of the quiet running surface drivehead makes the PC pump more acceptable in environmentally sensitive areas.

Other advantages: Anti-bar tube eccentric wear, anti-pipe leakage, anti-pump leakage: screw pump lift due to no valve group, no rod column neutral point, no column column addition and subtraction load, continuous stable side rolling side sliding pumping, no liquid column And the mechanical transmission’s inertia loss and other outstanding advantages, can be targeted to solve the problem of high pumping, oil pumping, eccentric wear, and tube leakage caused by high-sludge sand pumping wells.

Gear Structure Top Drive

The surface drive is a specific facility to suspend and rotate the sucker rod, which in turn drives the PC pump. Then fluid can be brought to the surface by continuous movement of rotor within stator. When unit stops the surface drive absorbs reversion torque stored on sucker rod and releases the torque gradually so that thread off can be avoided. Since the stored energy is released, the safety of units and operators can be ensured.

There are varieties of Hebei Jerry series PCP and surface drive and they are available for different well conditions.



Parameters Chart

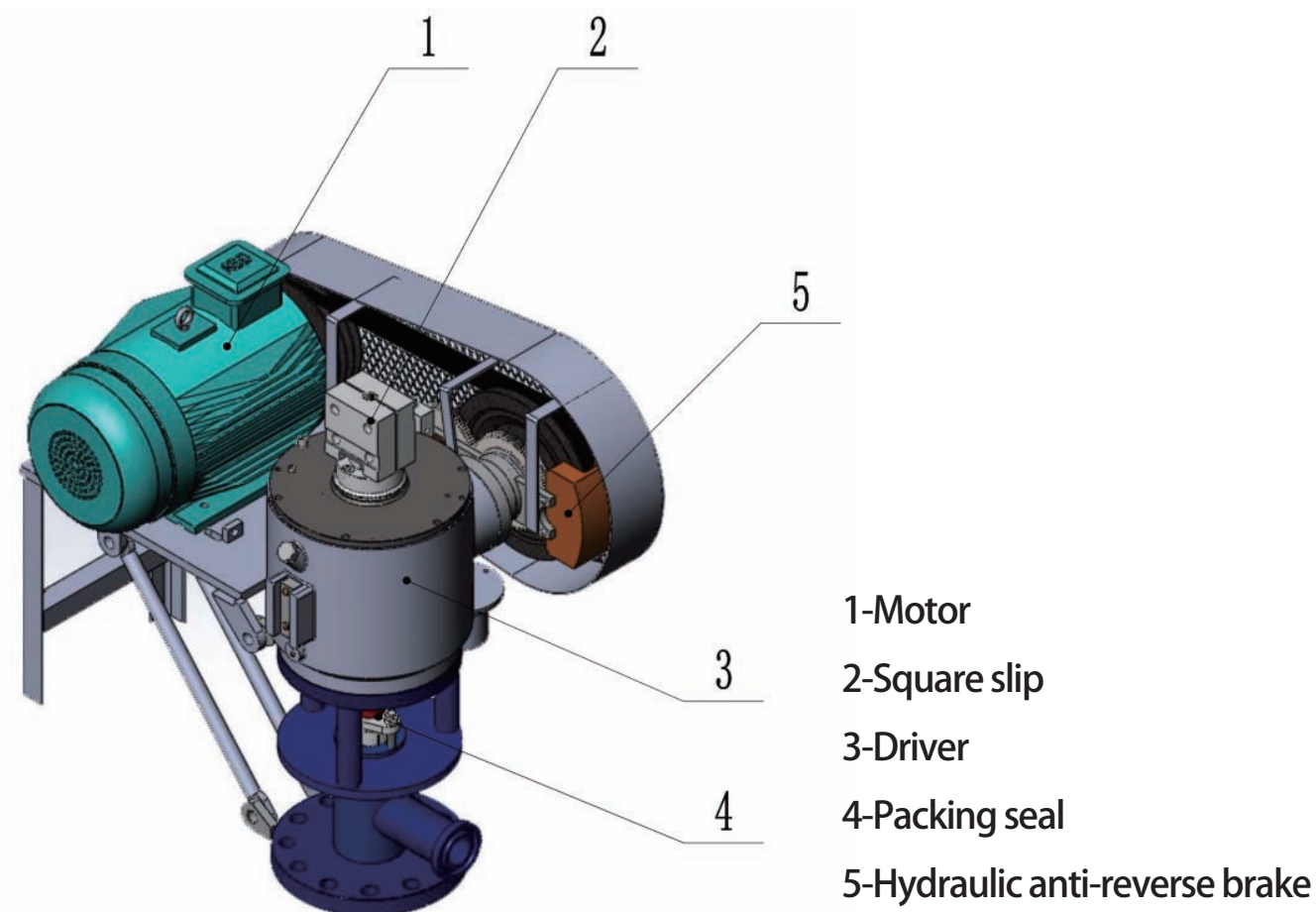
Parameters Chart

Type	Power(KW)	Axial load capacity (KN)	Over size (L*W*H) mm	Voltage(V)/ frequency (HZ)	Motor Type	Speed range r/min	Wellhead connections(A)	Oil outlet connections (B)	Weight(KG)	Break type
WLBQ7.5 - 25QF	7.5	150	1200*800*980	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	600	Hydraulic anti - reverse brake
WLBQ11 - 25QF	11	150	1200*800*980	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	645	Hydraulic anti - reverse brake
WLBQ15 - 25QF	15	150	1200*800*980	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	660	Hydraulic anti - reverse brake
WLBQ18.5 - 28QF	18.5	150	1200*800*980	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	710	Hydraulic anti - reverse brake
WLBQ22 - 28QF	22	150	1200*800*980	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	720	Hydraulic anti - reverse brake
WLBQ30 - 38QF	30	150	1200*900*1000	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	765	Hydraulic anti - reverse brake
WLBQ37 - 38QF	37	150	1200*900*1000	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	865	Hydraulic anti - reverse brake
WLBQ45 - 38QF	45	150	1200*900*1000	380/50	Explosion - proof motor	30 - 150	2007/1/16 3000PSI,R45	KY65 - 21	900	Hydraulic anti - reverse brake

1. It is recommended that the minimum speed of the drive unit be no less than 30 rpm.
2. If the drive unit adopts variable frequency control, it is recommended to use variable frequency motor; if ordinary motor is used, the minimum frequency should be greater than 25HZ.
3. If you have special requirements, please contact us, we can modify or customize the products for your use.

Structure Composing

The lower flange of the driving device support is connected with the well casing flange or the special wellhead flange by bolts, the side oil outlet of the support is connected with the oil outlet of the wellhead ground, The polish rod passes through the driving device through the slip seat on the output shaft of the driving device, and the motor is connected to the matched electric control box through the electric wire. There are two dynamic seals between the input shaft of the reducer, the output shaft, the box and the support, and six static seals to ensure that the gear oil and crude oil do not leak.



Features

Features:

Simple structure

Smooth and continuous

Low noise level small shape

Safety and convenient

Long service life

Applications Scopes:

High freezing point oil

High wax-content oil

High sand-content oil

High gas exploitation condition

High or low viscosity oil

Skills Requirement

I Avoid violent collision when dragging, so as not to damage the parts;

II Install the gear oil in the gearbox to the top of the middle mark of the oil mark, but not more than 10mm in the middle mark;

III Install gear oil in the gear box, add gear oil with slightly higher viscosity in summer (recommended N2 20); install gear oil with lower viscosity in winter (recommended N100);

IV The drive unit is marked with a forward rotation mark, and the motor is prohibited from rotating in the reverse direction;

V After the belt is tightened, apply 30N pressure in the middle of the belt, and the belt deformation is 5~8mm. The tension at this time is suitable;

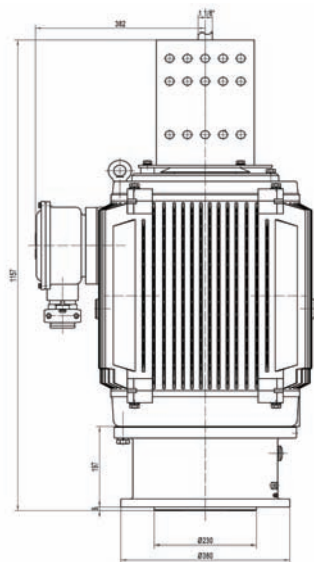
VI After the anti-shock distance is lifted, the length of the polished rod above the slip should be as short as possible to improve the safety factor of the wellhead;

VII There are several speeds of the spindle speed. When adjusting, adjust the pulley size according to actual needs to achieve different speeds;

IX When repairing, it is necessary to release the torque. Use a special wrench to slowly loosen the brake lock bolt and let the brake belt leave the brake wheel to make the polished rod torque release slowly.

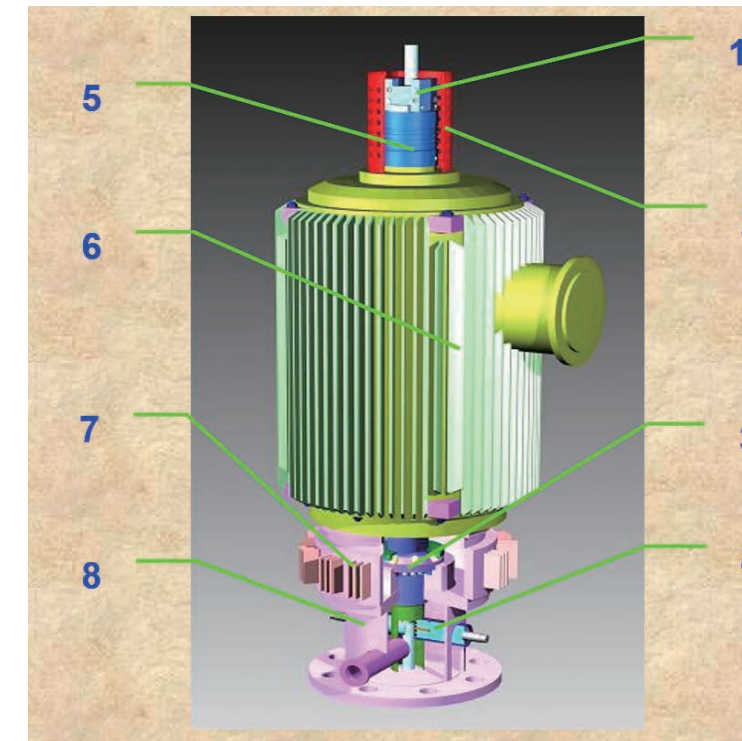
Direct-drive Motor Top Drive

Direct-drive motor drives is made up of flameproof permanent magnet motor and intelligent VFD control cabinet, is my company for oil field PCP and PCP CBM development of a highly efficient energy-saving products, it is in power electronics, computer technology, rare earth permanent magnet material development on the basis of the research and development of a new type of integrated products.



Mode of motor	Rated torque(N. M)	Rated speed(RPM)	Rated power(KW)
320B05K4 -02	250	200	5
800B12K4 -02	600	200	12
800B21K4-02	1000	200	21
800B31K4-02	1500	200	31
800B42K4-02	2000	200	42

Structure Composing



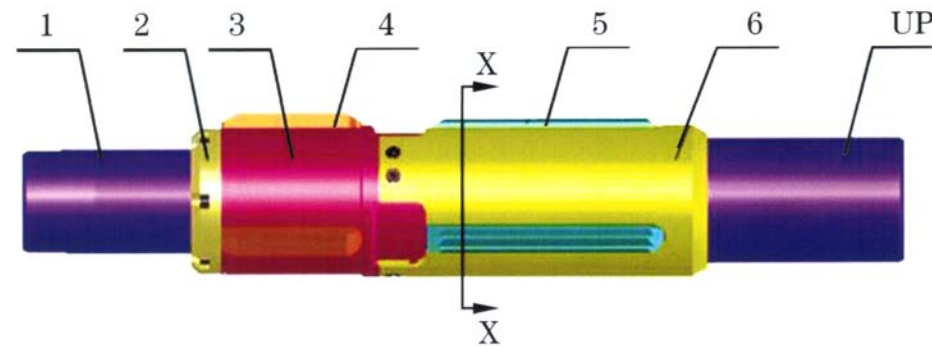
- 1 .Square clip
- 2 .protective cover
- 3.Bearing bearing
- 4 .Blowout preventer
- 5 . Sealed box
- 6 .Permanent magnet motor
- 7 .Bearing tray
8. Wellhead seat

Advantages

- I Low cost.
- II Energy saving is obviously, the power saving rate is more than 25%.
- III Save space
- IV The motor speed is lower, the mechanical noise is smaller
- V The structure is simple, eliminating the mechanical reducer and belt drive, easy to maintain, reducing maintenance personnel, reducing maintenance time, correspondingly increased production time
- VI The speed is continuously adjustable, and there are soft start and soft stop. When the power grid is out of power, the soft brake is realized by the energy consumption resistor, which avoids the hook-off accident caused by the rapid reversal of the sucker rod. The maximum possible protection of the sucker rod is safe
- VII Effectively reduce the problem of packing leakage

Anchor

TNM Cam Ancor



1. Cam connector 2. Stopring 3. Wiper block sleeve 4. Wiper block
5. Slip inset 6. Slip insert sleeve

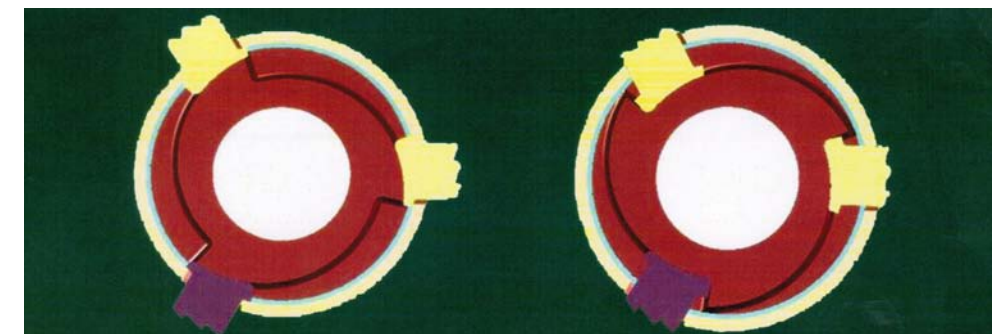
TNM Cam anchor is a new type of screw pump anti-off special anchor, The anchor when using in the well, Without lifting and putting down the seat seal, Centering good performance, The tubing and sucker rod is always in vertical state, Avoid the tubing and the eccentric wear of the sucker rods, Simple operation, Good stability, The 3 block is anchored in the inner wall of the casing is supported by the spring, Cam fastening, Uniform stress, The casing damage is less, Avoid the tubing tripping, The greater the reverse torque, the greater the anchoring force, Torque up to 5000N · m above, Anchor firm, On the special gas has good corrosion resistance. And easy to use, safety and reliable Working principle:

When PCP is in operation, cam connector of tubing anchor rotates with stator, with the help of dip angle of cam connector three slip inserts can be opened together anchoring on casing firmly. When disanchoring, three slip inserts can be retracted together by turning it left several times.

Wiper block is used for alignment, when slips are opened it helps three clips are frozen on the inner side of casing with even force but not for some point or section.

Method of Application

- I Lay the box end of tubing anchor upwards (as signs), then connect it to rod string and screw up the connection thread;
- II Sink the anchor downhole;
- III Start up and perform anchorage;
- IV When disanchoring, turn it left several time then pick it up.



slip inserts open
X-X section

slip inserts retract
X-X section

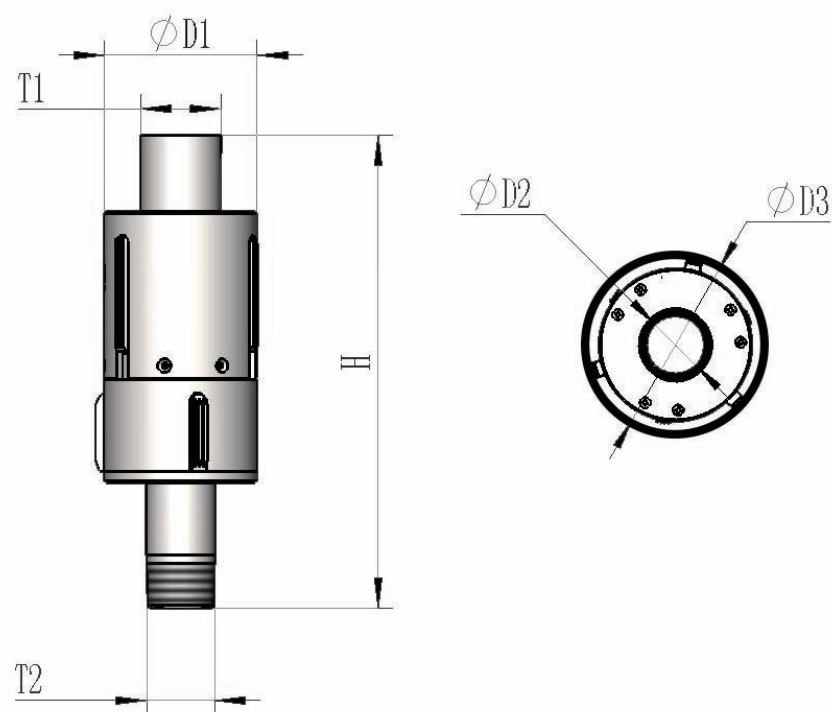
Technical Characteristics

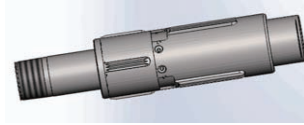

- I Easy to operate, automatic anchorage through slip inserts and cam connector;
- II Special design of slip insert made it possible to be anchored on casings of different qualities;
- III Reliable and stable working performance, automatic disanchorage;
- IV No ordinary slid rail avoids sanding in effectively;
- V Automatic setting avoids tubing bent effectively;
- VI Available for well with low cement top, less damage to casing when anchoring.

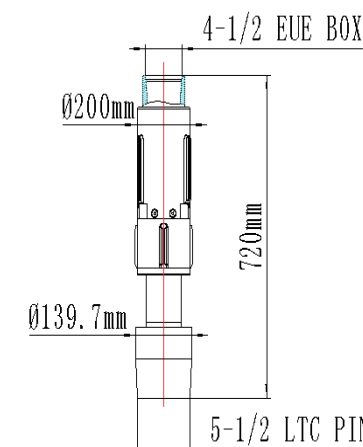
TNM Cam Anchor Technical Parameters As Follows, Connecting Thread(API Standard)

Model	Weight	D1 (mm) External diameter	D2 (mm) Max drift diameter	H (mm) Length	Thread size		D3(mm) Casing diameter range	Material		
					Top:T1	Bottom:T2		API	CAM	Slip
KLM4"	24	80	22	620	2 ³ / ₈ "EUE BOX	2 ³ / ₈ "EUE PIN	82-115	4" (9.5、10.7)	42CrMo	20CrMnTi
KLM5 ¹ / ₂ "	31	113	62	620	2 ⁷ / ₈ "EUE BOX	2 ⁷ / ₈ "EUE PIN	115-130	5- ¹ / ₂ " (14、15.5、17、20、23)	42CrMo	20CrMnTi
KLM6 ⁵ / ₈ "	34	134	76	550	3 ¹ / ₂ "EUE BOX	3 ¹ / ₂ "EUE PIN	142-158	6- ⁵ / ₈ " (20、24、28、32)	42CrMo	20CrMnTi
KLM7"	37.47	147	62	620	2 ⁷ / ₈ "EUE BOX	2 ⁷ / ₈ "EUE PIN	148-170	7" (17、20、23、26、29、32、35、38)	42CrMo	20CrMnTi
KLM7"B	37.47	147	76	620	3 ¹ / ₂ "EUE BOX	3 ¹ / ₂ "EUE PIN	148-170	7" (17、20、23、26、29、32、35、38)	42CrMo	20CrMnTi
KLM9 ⁵ / ₈ "	80.65	190	98	710	4 ¹ / ₂ "EUE BOX	4 ¹ / ₂ "EUE PIN	208-232	9- ⁵ / ₈ " (32.3、36、40、43.5、47、53.5)	42CrMo	20CrMnTi

Note: Top and Bottom connection size can be processed according to customer requirements



TYPE	Description
9- ⁵ / ₈ " x 4- ¹ / ₂ "	Top Crossover: 5 ¹ / ₂ " LTC BOX x 4- ¹ / ₂ "
	Top connection 4- ¹ / ₂ " EUEBOX
	Bottom connection: 4- ¹ / ₂ " EUE PIN
	Bottom Crossover: 5 ¹ / ₂ " LTC PIN x 4 ¹ / ₂ "
	Range:8.29-9.05 in Torque: greater than 5000N•m
	Weigh:80.65KG



TNM-F Cam Anchor

TNM-F Cam anchor is a new type of screw pump anti-off special anchor, The anchor when using in the well, Without lifting and putting down the seat seal, Centering good performance, The tubing and sucker rod is always in vertical state, Avoid the tubing and the eccentric wear of the sucker rods, Simple operation, Good stability, The 3 block is anchored in the inner wall of the casing is supported by the spring, Cam fastening, Uniform stress, The casing damage is less, Avoid the tubing tripping, The greater the reverse torque, the greater the anchoring force, Torque up to 3000N m above, Anchor firm, On the special gas has good corrosion resistance. And easy to use, safety and reliable.



Structure: Body、Camshaft、anchoring card block、centralizing block Etc.

Technical Parameters

TNM-F Cam anchor technical parameters as follows , Connecting thread (API standard)

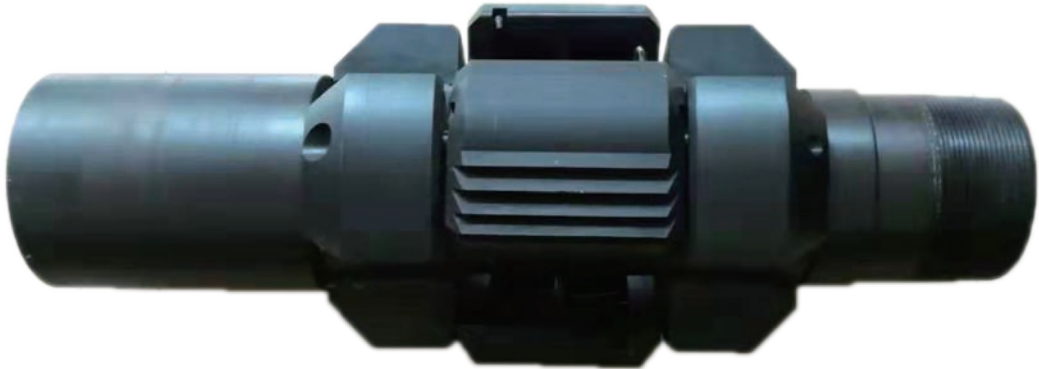
Model	Body Diameter mm	Minimum Path mm	Overall length mm	Scope of work		Link Thread EUE NU (EU)	
				mm	inch	up thread	Bottom thread
TNM-F-5 1/2"	Φ114	Φ48	600	116-130	4.56-5.12	2 7/8 "	2 7/8 "
TNM-F-6 5/8"	Φ118	Φ60	660	140-156	5.51-6.14	2 7/8 "	2 7/8 "
TNM-F -7"	Φ118	Φ60	660	150-168	5.90-6.61	3 1/2 "	3 1/2 "
TNM-F -9 5/8"	Φ206	Φ76	760	216-232	8.50-9.13	3 1/2 "	2 7/8 "

Use Method

- I . According to the casing size choose the right anchor, In the well first check the anchor tag(UP), The rotary clamping Cam anchor., The anchor block is at the lowest position, Hand pressing anchoring card block there are activities, Connection screw pump stator end of to Smooth down in to the casing.
- II . The pump stator next to a predetermined depth after, 400N ● m torque is applied to the tubing string in a clockwise direction, Then fixed the tubing string and wellhead, Now the torque anchor have been anchored on a bushing. Reverse rotation of 1-5 circle release, Then Lift the tubing.

FDNM Floating Torque Anchor

- I 、 Use Because the rotor of the screw pump rotates clockwise in the stator, the working load is directly expressed as torque, the rotor torque acts on the stator, and the stator torque will cause the column to trip. Therefore, the oil pipe string of the screw pump well must be prevented. , install the torque anchor. The FDNM floating torque anchor consists of three floating blocks anchored to the inner wall of the casing to ensure that the torque anchor is concentric within the casing. Prevent tubing tripping and improve pump stability.



Technical Parameters

Casing Size in (mm)	Casing weight lbs/ft (kg/m)	Tool O.D in (mm)	Thread Connection	LD. in (mm)
5 1/2" (139.7)	13-20 (19.3-29.8)	4.63 (117.5)	2 5/8 " EU (73.0mm EU)	2.44 (62)
7" (177.8)	17-25 (25.3-38.7)	6.13 (155.6)	3 1/2 " EU (88.9mm EU)	2.99 (75.99)
8 5/8" (219.1)	20-32 (29.8-47.6)	7.75 (196.9)	4 1/2 " EU (114.3mm EU)	3.96 (100.6)
9 5/8" (244.5)	29.3-47.0 (43.6-69.94)	8.5 (215.9)	4 1/2 " EU (114.3mm EU)	3.96 (100.6)

Instructions

Threaded on the PC pump below the tubing string to the required depth,.

Seat seal: right-hand pre-torque for tubing and PC pumps.

Unlocking: The tubing string is pulled straight and released

NM Flap Torque Anchor-1

NM flap type torque anchor, its structure is composed of body, Centralizer block, anchoring block and so on. The torque anchor has the characteristics of simple operation, firm anchoring, convenient use, safety and reliability.



Product structure: Body、centralizing block、anchoring card block Etc.

Technical Parameters

NM technical parameters as follows, connecting thread (API standard) .

We accept customize according the personal requirements

Model	Body Diameter mm	Minimum Path mm	Overall length mm	Scope of work		EUE (NU) Link Thread	
				mm	inch	up thread	Bottom thread
NM-5 1/2"	Φ108	Φ48	676	118-128	4.64-5.03	2 7/8"	2 7/8"
NM-6 5/8"	Φ138	Φ60	720	144-153	5.66-6.02	3 1/2"	3 1/2"
NM-7"	Φ142	Φ60	866	150-164	5.90-6.45	3 1/2"	3 1/2"
NM-9 5/8"	Φ206	Φ76	1012	216-230	8.50-9.05	2 7/8"	2 7/8"

Use Method

I According to the casing size choose the proper anchor, In the well first check the anchor tag (UP) the upper end is Box thread, the bottom is Pin thread .According to the tubing thread recommended torque will anchor pipe string and tighten.

II The pump stator next to a predetermined depth after, 400N m torque is applied to the tubing string in a clockwise direction, Then fixed the tubing string and wellhead Now the torque anchor have been anchored on a bushing.

III Reverse: Reverse rotation of 1-5 circle release, Then up.

IV Recommend the use of tubing centralizer in the oil pipe screw pump outlet and the anchor end, to reduce vibration.

NM Flap Torque Anchor-2

NM Flap torque anchor is a new type of screw pump anti-off special anchor. The torque anchor has the characteristics of simple operation, convenient use, anchored firmly, safety and reliability etc..



Structure: Body、centralizing block、anchoring card block Etc.

Technical Parameters

NM technical parameters as follows, Connecting thread (API standard).

Model	Body Diameter mm	Minimum Path mm	Overall length mm	Scope of work		EUE (NU) Link Thread	
				mm	inch	up thread	Bottom thread
NM-5 1/2"	Φ108	Φ48	676	118-128	4.64-5.03	2 7/8"	2 7/8"
NM-6 5/8"	Φ138	Φ60	720	144-153	5.66-6.02	3 1/2"	3 1/2"
NM-7"	Φ142	Φ60	866	150-164	5.90-6.45	3 1/2"	3 1/2"
NM-9 5/8"	Φ206	Φ76	1012	216-230	8.50-9.05	2 7/8"	2 7/8"

Use method

I According to the casing size choose the right anchor, In the well first check the anchor tag (UP) the upper end is Box thread, the bottom is Pin thread. According to the tubing thread recommended torque will anchor pipe string and tighten.

II The pump stator next to a predetermined depth after, 400N • m torque is applied to the tubing string in a clockwise direction, Then fixed the tubing string and wellhead, Now the torque anchor have been anchored on a bushing.

III Reverse: Reverserotation of 1-5 circle release, Then up.

IV Recommend the use of tubing centralizer in the oil pipe screw pump outlet and the anchor end, to reduce vibration

HYGM Slide Type Torque Anchor

The HYGM slide type torque anchor is an ideal down-hole tool for fixing the screw pump and preventing the oil pipe joint from loosening. The utility model has the functions of automatic centering and locking, simple operation, safety and reliability, and the principle is that the two-way curve is reversed, the tooth block and the cone sleeve are merged, and the weight of the pump and the oil pipe is lifted and lowered to automatically lock and fix. When the slip ring enters the short slot, it is released and enters the long slot seal. (See below)



Technical Parameters

The technical parameters of the slide type torque anchor are shown in the following table, and the connecting thread (API standard).

Model	Body Diameter mm	Minimum Path mm	Overall length mm	Seat sealing force (t)	Scope of work		EUE (NU) Link Thread	
					mm	inch	Up thread	Bottom thread
HYGM-5 1/2"	Φ114	Φ48	1050	5-7	118-128	4.64-5.03	2 7/8"	2 7/8"
HYGM-6 5/8"	Φ138	Φ60	1211	5-7	144-153	5.66-6.02	2 7/8"	2 7/8"
HYGM-7"	Φ142	Φ60	1211	5-7	154-164	6.06-6.45	3 1/2"	3 1/2"
HYGM-9 5/8"	Φ206	Φ76	1050	8-10	216-230	8.50-9.05	3 1/2"	3 1/2"

Instructions

I The slide type torque anchor UP head is mounted on the lower end of the screw pump to connect the tubing string. Seat seal: when going down the well, reversing slip

II The ring is in a short track. When the anchor is lowered to the predetermined position, the pipe string is raised to a certain height, and then the pipe string is lowered. Reversing

III The slip ring is reversing to the long track, and the slip is opened and stuck on the inner wall of the sleeve to complete the seat seal. Unblocking: Lifting the column, clamping the tile, automatic unsealing. After the seat is closed, the oil pipe should be placed on the plane to expose the plane of the wellhead flange by 5-15 mm. More than this

IV Scope, re-sealing. Note: The screw pump torque anchor seal position must avoid the casing collar position. Downhole process

V If there is a mid-season seal, you can unpack the tubing string at a certain height.

XZM Rotary Torque Anchor

I Use Rotary tubing anchors are widely used in rod pump production systems to anchor pipe strings, reduce stroke losses during oil well production, and improve pump efficiency. It can effectively prevent the fatigue damage of the oil pipe and the sucker rod caused by the alternating load formed by the up and down movement of the sucker rod, and prolong the service life of the oil pipe.

II Structure

Rotary tubing anchor is mainly composed of upper and lower joints, center tube, upper and lower cones, righting spring pieces, slips, slips, slips, shear pins and so on. The specific structure is shown below



III the working principle

Anchor: the oil pipe is anchored to the predetermined well depth, and the left-handed pipe column is anchored. Due to the friction between the centralizing spring and the sleeve, the central tube and the slip frame are relatively rotated, due to the circumferential limit between the upper and lower cones and the slip frame and the square between the cone and the central tube. The threaded connection makes the upper and lower cones and the central tube realize relative axial movement, and the radial movement of the slip is pushed by the upper and lower cones to achieve anchoring of the sleeve. Unblocking: The right-handed column is unsealed and the column is lifted. The upper and lower cones move axially relative to the central tube, so that the upper and lower cones and the slip are disengaged. Under the action of the slip spring piece, the slips are retracted and unsealed.

IV Technical parameters (can be customized according to user requirements)

Technical Parameters

Model	Max. OD (mm)	Min. ID (mm)	Scope of work (mm)	Up ,bottom thread EU (NU)
XZM 5-5 1/2"	114	58	118-128	2 7/8"
XZM7"	148	62	152-164	2 7/8"

Features

I Convenient operation, left-handed anchoring, right-handed anchoring;

01

02

II Two-way anchoring through two-way slips, improving pump efficiency and reducing maintenance costs;

III Large diameter, ensuring cable tools and other equipment Passing;

03

04

IV By setting the shear pin, the emergency pull-off and anchoring can be realized when the tubing anchor cannot be normally unloaded. The anchor load can be adjusted by increasing or decreasing the pin;

V Effectively preventing the fatigue fracture of the tubing and reducing the salvage cost;

05

06

VI compact structure and simple maintenance.

Variable Frequency Control Cabinet

Hebei Jerry offer two types of Variable frequency control cabinets, one is imported ABB cassette mechanism variable frequency control cabinet the other is domestic cassette mechanism one. Variable frequency control cabinet can achieve stepless speed regulation. By means of variable frequency control cabinet and possible sheave match, oil well parameters adjustment can be changed without changing sheaves, which reduces daily maintenance a lot.

The use and maintenance of related frequency control cabinet refers to operation manual accordingly.



Part of PCP Production & Processing Equipment

Production and processing equipment



Part of PCP Production & Test Equipment

PCP testing equipment

