PRODUCT CATALOG

Black Snow Oilwell Machinery Co. Ltd.

COMPANY PROFILE

Black Snow Oilwell Machinery Co. Ltd.is located in Beijing China. And it is founded by Black Snow Information Technology (Beijing) Co. Ltd who has been built over 20 years. Our mission is to deliver high-quality, stable, and highly reliable specialized products to our global business partners. We are committed to establishing strong partnerships and expanding our reach in the oil industry's equipment trade over the next decade. We specialize in providing advanced drilling equipment that meets the rigorous demands of the oil sector, and also our offerings include high-quality refurbished heavy trucks, ensuring longevity and dependable performance.

We have cultivated strong relationships with local manufacturers across China, enabling us to leverage their expertise and resources. This collaboration enhances our product offerings and ensures that we can meet our clients' needs effectively. Otherwise, we provide comprehensive support, including both onsite assistance and remote troubleshooting, ensuring minimal downtime for our partners. Our commitment to customer satisfaction extends beyond the sale, with guaranteed aftersales service managed directly by our team and business partners.

As we look ahead, we aim to partner with new entities that share our vision, enhancing our capacity to bring Chinese products to the global market while maintaining our commitment to quality and reliability. We look forward to establishing mutually beneficial relationships with partners worldwide.

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About the team

In an era of global business, our diverse team combines extensive expertise in international payments and oil services, ensuring we provide comprehensive solutions to our clients. Each member brings a wealth of experience from their respective industries, allowing us to navigate complex challenges effectively.

Our founder has 20 years of experience in the payment industry, international business, and IT consulting, is a cornerstone of our operations. His deep understanding of international payments encompasses everything from regulatory compliance to the latest payment technologies. This enables us to offer our clients tailored solutions that enhance transaction security, minimize costs, and maximize efficiency in their international operations.

Our co-founder boasts 19 years of experience in the oil service industry, specializing in mechanical equipment and procurement. This extensive background gives us a significant edge in understanding the nuances of oil mechanical equipment and the procurement process. His expertise allows us to provide invaluable insights to clients in the oil sector, assisting them with procurement decisions that are efficient, economical, and strategic.

The combined skills of our team members signify our commitment to excellence. By integrating expertise in international payments with deep industry knowledge in oil services, we ensure our clients benefit from a well-rounded perspective. This collaboration fosters innovative solutions that address the multifaceted needs of businesses operating on a global scale.

Both team members are dedicated to staying updated on industry trends and advancements. They actively participate in professional development opportunities, including workshops and conferences, which enhances our service offerings and keeps our clients informed of the latest developments.

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Service Principle

Internationalized Services, as an international machinery trading company, Black Snow Oilwell Machinery Co. Ltd. (BLXNOW) can guarantee to provide pre-sales services, on-sales services, after-sales services and onsite services according to clients' actual requirements.

Pre-sales services

1. Technical solution and technical consulting services will be provided;
2. Company introduction, and related certifications or documents will be provided;
3. If needed onsite support will be provided, such as onsite measurement, onsite design and technical solution discussion etc..

On-sales services

1. Flexible payment can be accepted, FOB, CIF etc., it is negotiable as clients requiring;
2. As required, clients' technical personnel can be invited to visit our manufacturer partners to observe the production processes or work on the product customized details.

After-sales services

1. Once the product have been delivered, designated personnel will be arranged to the goods receiving site clients appointed to check the goods;
2. Free installation service and testing service can be provided onsite;
3. Technical issues will be responded within 24 hours, BLXNOW will work with manufacturer partners to group technical issues solving team to support our clients to solve problems asap;
4. Visiting clients or onsite workshops will be arranged to collect feedbacks, do marketing research, or solve issues, in order to serve our clients better.

Onsite services

Generally remote training service and instruction will be provided for products usage. For those products which need local installation and inspection, onsite services will be provided. And in pre-sales services and after-sales services we will provide free onsite services as required.

Part 1: General Spare Parts

General Spare Parts generally comprise the classifications of common, vulnerable mechanical parts in the oilwell drilling process and the oil production process, and such parts can be basically universal and used in different working processes. It mainly includes Unions, Flanges, Movable Bends, Rubber Hoses etc..

Hammer Unions

BLXNOW can offer high pressure, medium pressure and low-pressure hammer unions. The high-pressure hammer unions are forged from high-strength alloy steel, which materials apply for ASTM and AISI standard, and follow API spec 16C. The connection joint can be threaded, butt welded or none pressure sealed, and has good compatibility and interchangeability. The products can be used for multiple working environments, oil, gas, air or water according to different product type.

Type - FIG100

It has precision linear sealing surface which will guarantee the reliable pressure seal. It is recommended for working with low pressure manifolds and the working pressure less than 1000PSI.

Specifications and reference sizes of hammer union FIG100

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
2	50.5	3 5/8	92.1	2 15/16	74.6	SF	SF	5.25	2.4
2 1/2	63.8	4 1/4	108	3 5/8	92.1	SF	SF	8	3.6
3	76.2	4 15/16	125.4	4 1/16	103.2	SF	SF	14	6.4
4	101.6	5 15/16	150.8	4 25/32	121.4	SF	SF	23	10.4
6	152.4	6 5/8	168.3	6 7/16	163.5	SF	SF	44.5	20.2
8	203.2	7 1/4	184.2	7 11/16	195.3	SF	SF	61	27.7

* 1000PSI NSCWP; Testing pressure: 1500PSI; black nut and yellow parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG200

It has compact structure, and is widely used for low pressure kill line. It also can be used for medium pressure working environments in oil, gas, water or air. Butt-welded Sch.40 is adopted.

Specifications and reference sizes of hammer union FIG200

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	2 11/16	68.3	1 15/16	49.2	SC/SF	SF	1.75	0.8
1 1/4	31.7	2 7/8	73	2 3/8	60.3	SF	SF	2.37	1.1
1 1/2	38.1	2 7/8	73	2 3/8	60.3	SF	SF	2.37	1.1
2	50.8	3 5/16	84.1	2 29/32	73.8	SF	SF	5.25	2.4
2 1/2	63.8	4 1/16	103.2	3 11/16	93.7	SF	SF	10	4.5
3	76.2	4 3/8	111.1	3 7/8	98.4	SF	SF	15.25	6.9
4	101.6	4 13/16	122.2	4	127	SF	SF	20	9.1
6	152.4	6 5/8	168.3	6 7/16	163.5	SF	SF	44.5	20.2

* 2000PSI NSCWP; Testing pressure: 3000PSI; blue nut and grey parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG206

The o-ring installed on the surface of its male joint will enhance the seal, Butt-welded Sch.40 is adopted. It is recommended to connect to manifolds and pipes, and work in the negative pressure or corrosive working environments.

Specifications and reference sizes of hammer union FIG206

Pipe Size		Length		Nut Radius		Material		Weight	
In	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	2 11/16	68.3	1 15/16	49.2	SC/SF	SF	1.75	0.8
1 1/2	38.1	2 7/8	73	2 3/8	60.3	SF	SF	2.37	1.1
2	50.8	3 5/16	84.1	2 29/32	73.8	SF	SF	5.25	2.4
2 1/2	63.8	4 1/16	103.2	3 11/16	93.7	SF	SF	10	4.5
3	76.2	4 3/8	111.1	3 7/8	98.4	SF	SF	15.25	6.9
4	101.6	4 13/16	122.2	4	127	SF	SF	20	9.1
6	152.4	6 5/8	168.3	6 7/16	163.5	SF	SF	44.5	20.2
8	203.2	7 1/4	184.2	7 11/16	195.3	SF	SF	61	27.72

* 2000PSI NSCWP; Testing pressure: 3000PSI; blue nut and grey parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG207

The nitrile rubber o-ring is installed in the cap to enhance the seal. The threaded joint can be replaced by the ones of FIG200 and FIG206. Butt-welded Sch.40 is adopted. It is recommended to be used to seal manifold or protect pipe thread in the working environments of air, water, oil or gas.

Specifications and reference sizes of hammer union FIG207

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
3	76.2	4 3/4	95.25	2 7/8	73.03	SC	SF	9.8	4.45
4	101.6	4 5/16	109.54	3 19/32	91.28	SC	SF	16.25	7.37
6	152.4	3 13/16	147.64	4 31/32	126.2	SC	SF	38	17.24

* 2000PSI NSCWP; Testing pressure: 3000PSI; blue nut and grey parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG300

The precise seal surface of the parts guarantees the reliable pressure seal. It is recommended for the working environments of oil, water, mud, gas or air.

Specifications and reference sizes of hammer union FIG300

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	$2^{11}/_{16}$	68.3	$1^{15}/_{16}$	49.2	SC/SF	SF	1.75	0.8
2	50.8	$3^{5}/_{16}$	84.1	$2^{29}/_{32}$	73.8	SF	SF	5.25	2.4

* 3000PSI NSCWP; Testing pressure: 4500PSI; black nut and green parts
* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG211

It has insulation design (the ring seal assembly) to avoid the surface contact of two parts. The ring seal assembly is made by synthetic rubber which is made precisely with compound wear resistance, and provides effective seal; It can be replaced to increase the service life of hammer union. This union is recommended to connect to low pressure manifolds and pipes, and work in the working environments of negative pressure and corrosivity.

Specifications and reference sizes of hammer union FIG211

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
2	50.8	$3^{1}/_{2}$	88.9	$3^{1}/_{8}$	79.38	SF	SF	6.25	2.8
3	76.2	$4^{1}/_{2}$	114.3	4	101.6	SF	SF	12.5	5.7

* 2000PSI NSCWP; Testing pressure: 3000PSI; grey nut and light blue parts
* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG 400/402

Wall thickness and solid design are adopted, ring seal and taper seal are used for easy centering and reliable sealing.

Specifications and reference sizes of hammer union FIG400/402

Pipe Size		Length		Countersink		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	in	mm	Nut	Part	lb	kg
2	50.8	$5^{3}/_{16}$	131.8	1/4	6.4	$3^{3}/_{16}$	90.5	SF	SF	11	5
3	76.2	$6^{1}/_{4}$	158.8	3/8	9.5	$4^{3}/_{16}$	106.4	SF	SF	19.25	8.7
4	101.6	$8^{1}/_{8}$	206.4	3/8	9.5	5	127	SF	SF	32	14.5

* 4000PSI NSCWP; Testing pressure: 6000PSI;
  black nut and red parts for FIG400; black nut and black parts for FIG402
* SF- Steel forging SC – Steel casting AS – Alloy steel
* Only the one with pipe size 2 inches, has an o-ring made by nitrile rubber for seal.

Type – FIG600

The bronze gasket seal provides primary seal. It is recommended for steam system, and used for connection with manifolds or pipes in production, drilling and workover.

Specifications and reference sizes of hammer union FIG600

Pipe Size		Length		Countersink		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	3 17/32	89.7	1/4	6.4	2 5/16	58.7	SF	SF	3.5	1.6
2	50.8	6 1/4	158.8	3/16	4.8	3 3/4	95.3	SF	SF	15	6.8

* 6000PSI NSCWP; Testing pressure: 9000PSI; black nut and silver parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG602

Weak nitrile rubber sealing ring is installed to seal and enhance the matching of the hammer union parts. It is recommended to connect to manifolds, vehicle-mounted system and mud transfer. Butt-welded Sch.80 is adopted and it can be used for non-pressure sealing union.

Specifications and reference sizes of hammer union FIG602

Pipe Size		Length		Countersink		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	3 17/32	89.7	1/4	6.4	2 5/16	58.75	SF	SF	3.5	1.6
2	50.8	5 1/4	133.3	1/4	6.4	3 9/16	90.5	SF	SF	13.25	5.9
3	76.2	6 3/8	161.92	3/8	9.5	4 5/8	117.5	SF	SF	21	9.5
4	101.6	8 1/16	208	3/8	9.5	5 1/4	133.4	SF	SF	33	15

* 6000PSI NSCWP; Testing pressure: 9000PSI; black nut and orange parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG1002

Weak nitrile rubber o-ring is installed. It is recommended for cementing, fracturing, acidizing, testing & blocking and kill line. It is designed for high-pressure system, including vehicle-mounted system, and also can be used as non-pressure seal union. Butt-welded Sch.160 or XXH is adopted.

Specifications and reference sizes of hammer union FIG1002

Pipe Size		Length		Countersink		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	in	mm	Nut	Part	lb	kg
1	25.4	3 1/2	89.7	1/4	6.4	2 1/4	58.78	SF	SF	3.5	1.6
2	50.8	5 3/16	131.8	1/4	6.4	3 11/16	93.7	SF	SF	13.25	5.9
3	76.2	6 3/8	161.9	3/8	9.5	4 3/8	117.5	SF	SF	21	9.5
4	101.6	8 1/16	204.8	3/8	9.5	5 1/4	133.4	SF	SF	39.5	17.9
5	127	6 4/5	172.7			6	152.4	SF	SF	61.67	28
6	152.4	7 1/16	179.4			7 1/4	184.2	SF	SF	70.48	32

* 10000PSI NSCWP; Testing pressure:15000PSI; red nut and blue parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG1003

This union has a spherical seal, which allows 7.5 degrees angle adjustment. Except the contact of steel to steel, a nitrile rubber o-ring is used to guarantee the sealing in the connection with angle adjustment. It is recommended for high pressure pipe lines connection when pipe lines cannot center, and it can be used for the working environments of oil, gas, air, water and mud.

Specifications and reference sizes of hammer union FIG1003

Pipe Size		Connection	Length		Nut Radius		Material		Weight	
in	mm		in	mm	in	mm	Nut	Part	lb	kg
3	76.2	NPT	9 1/8	231.8	4 7/8	123.8	SC	AS	45	99.2
3	76.2	SCH160	8 7/8	225.4	4 7/8	123.8	SC	AS	47.5	104.7
3	76.2	XXHVY	9 1/8	231.8	4 7/8	123.8	SC	AS	48.5	106.9
4	101.6	NPT	10 15/16	277.8	5 3/4	146	SF	AS	72	158.7
4	101.6	SCH160	10 11/16	271.5	5 3/4	146	SF	AS	76	167.5
4	101.6	XXHVY	10 15/16	277.8	5 3/4	146	SF	AS	78	172
5	127	SCH160	10 3/4	273.1	5 3/4	146	SF	AS	74	163
5	127	XXHVY	10 15/16	277.8	5 3/4	146	SF	AS	76.5	168.7

* 10000PSI NSCWP; (7500PSI NSCWP for 4 in and 5 in); black nut and green parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG1502

It has a replaceable nitrile rubber o-ring, wall thickness and solid design is adopted. It can be used for high pressure system. It is recommended for cementing, fracturing, acidizing, testing & blocking and kill line, it also can be used for the non-pressure sealing connection. Butt-welded Sch XXH is adopted.

Specifications and reference sizes of hammer union FIG1502

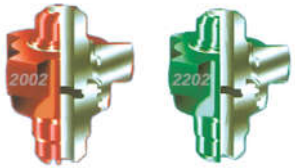
Pipe Size		Length		Countersink		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	in	mm	Nut	Part	lb	kg
1 1/2	38.1	5 13/32	137	1/4	6.4	3 21/32	93	SF	SF	12	5.4
2	50.8	7	177.8	15/64	6	3 3/4	95.3	SF	SF	21	9.5
3	76.2	7 5/8	193.7	3/8	9.5	4 1/2	114.3	SF	SF	31	14.1
4	101.6	8 3/5	218.4	3/8	9.5	6	152.4	SF	SF	74	33.7

* 15000PSI NSCWP; Testing pressure: 22500PSI; blue nut and red parts

* SF- Steel forging SC – Steel casting AS – Alloy steel

Type – FIG2002/2202

This type of union only has one pipe size (2 in). It has a nitrile rubber o-ring working with steel liner to provide squeezing protection in the super pressure environments. FIG2202 has a fluorinated rubber sealing ring, Hardness test is carried out on all heat-treated components, following NACE MP-01-75 and API RP-14E. It is specially used for the working environments with acid gas.



Specifications and reference sizes of hammer union FIG1502

Pipe Size		Length		Nut Radius		Material		Weight	
in	mm	in	mm	in	mm	Nut	Part	lb	kg
2	50.8	7 3/8	187.32	3 11/16	93.66	SF	AS	22.5	49.6

* FIG2002, 20000PSI NSCWP; Testing pressure: 30000PSI; red nut and red parts

* FIG2202, 15000PSI NSCWP, green nut and green parts, for acid gas working environment

* SF- Steel forging SC – Steel casting AS – Alloy steel

Pneumatic Tire Union

Pneumatic tire union is widely used for pipe line connection, which needs frequent disassembly and has large bore and large dislocation, in the medium or low pressure working environments, especially for the connections between mud tanks in oilwell cementing control system. As its good operation performance, it can be quickly assembled or disassembled onsite, the connection seal cannot be affected by the large dislocation. It is the good choice for reducing physical labor and well construction lead time.

Product components: steel shell, pneumatic tire

Working environment: -45 C to 50 C

Working medium: drilling fluid (acid-base substance, such as mud, oil, water)

Max sealing pressure (fluid pressure in pipe line): 0.4MPa

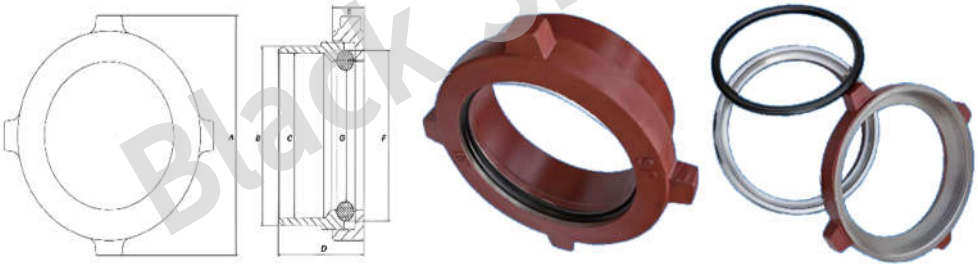
Recovery time after deflating pneumatic tire: 1 to 3 seconds

Main reference sizes of pneumatic tire

Model		Bore (mm)	Weld size (mm)
in	mm		
4"	Φ100	Φ116	Φ165
6"	Φ150	Φ168	Φ219
8"	Φ200	Φ219	Φ273
10"	Φ250	Φ273	Φ325
12"	Φ300	Φ325	Φ377
14"	Φ350	Φ380	Φ428

Telescopic Hammer union

Telescopic hammer union is the upgrade of pneumatic tire union. As its good operation performance, it can be quickly assembled or disassembled onsite, the connection seal cannot be affected by the large dislocation. It is the good choice for reducing physical labor and well construction lead time. There are two sets of products, one set has three pieces of components, the other one has four pieces of components.



Specifications and reference sizes of 3-piece of hammer union

Bore (in/mm)	Size (mm)							Total Weight (KG)
	A	B	C	D	E	F	G	
4"/101.6	264	168	150	135	50	155	111	11
6"/152.4	322	219	200	135	50	209	165	16
8"/203.2	382	273	253	135	50	260	216	20
10"/254	432	325	305	135	50	314	270	23.5
12"/304.8	491	377	355	135	50	366	322	30
14"/355.6	538	426	406	135	50	418	374	41.5

Specifications and reference sizes of 4-piece of hammer union

Bore (in/mm)	Size (mm)						Total Weight (KG)
	A	B	C	D	E	F	
4"/101.6	260	111	150	168	35	122	13
6"/152.4	341	165	200	219	68	172	22.8
8"/203.2	396	216	254	273	68	172	27.7
10"/254	445	270	305	324	68	172	30.5
12"/304.8	506	322	355	377	68	172	39.8

High Pressure Flange

High pressure flange is forged by high-strength alloy steel with advanced production technology. The strict heat treatment is adopted to guarantee it has the uniform metallographic structure and bearing capacity. It is widely used for high pressure connection in oil industry, boiler industry and ship industry.

API 6A Type 6B Specifications of high pressure flange

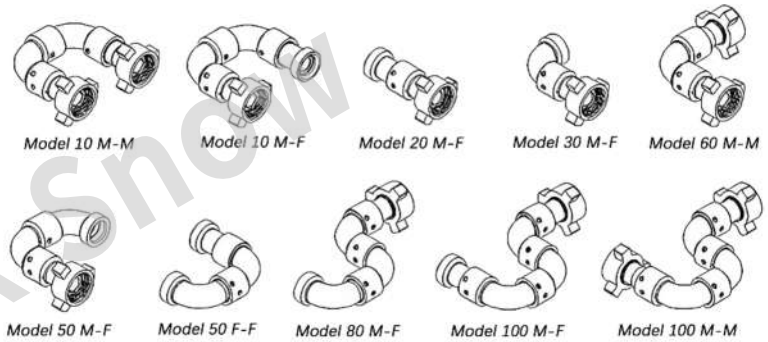
Type 6B		Nominal Working Pressure MPa(PSI)				
mm	in					
46	$1^{13}/_{16}$				69(10000)	103.5(15000)
52	$2^{1}/_{16}$	13.8(2000)	20.7(3000)	34.5(5000)	69(10000)	103.5(15000)
65	$2^{9}/_{16}$	13.8(2000)	20.7(3000)	34.5(5000)	69(10000)	103.5(15000)
78	$3^{1}/_{16}$				69(10000)	103.5(15000)
80	$3^{1}/_{8}$	13.8(2000)	20.7(3000)	34.5(5000)		
103	$4^{1}/_{16}$	13.8(2000)	20.7(3000)	34.5(5000)	69(10000)	103.5(15000)

High Strength Movable Elbow

Movable elbow is the control component of high-pressure fluid in cementing equipment and fracturing equipment. It is the pipe fitting that changes the pipeline connection direction and facilitates the pipeline connection. It is widely used for high-pressure discharge pipeline, suction pipeline, temporary fluid pipeline, well test pipeline and other high-pressure flow pipeline in the acid working environment (except the working environment containing CO_2 and H_2S acid gas). It complies with API Spec 6A.

Working pressure: 35MPa ~ 105MPa
Nominal Bore: 1" ~ 4"
Working temperature: -29 C to 121 C
Product specification level: PSL3
Performance requirement: PR1

There is model 10, model 20, model 30, model 50, model 60, model 80 and model 100, which can have different combinations of screw types. It can replace SPM company's similar products.



Model	Nominal Bore (in)	Connection Type	Screw Type	Working Pressure Mpa(PSI)
10 20 30 50 60 80 100	1" 2" 3" 4"	Tr100 x 12 Tr110 x 8 flg602 flg1002 flg1502	M x M M x F F x F	35MPa (5000PSI) 42MPa (6000PSI) 70MPa (10000PSI) 105MPa (15000PSI)

* The connection type can be provided according to actual requirements.
* F: Threaded, M: spherical
* Order example: 4" x 105MPa(15000PSI)-flg1002(F x M)-10

High-pressure Straight Pipe

The high-pressure straight pipe is made of high-quality alloy steel and is connected by the union. It includes common integral type, integral type with shoulder and split type. The length can be produced according to clients' needs.

Nominal bore: 2", 3", 4"

Working pressure: 42MPa ~ 105MPa (6000PSI ~ 15000PSI)

Technical data of integral high-pressure straight pipe

Bore (in)	Connection Type	Working Pressure	3ft	4ft	5ft	6ft	8ft	10ft	12ft
2"	ft1502	15000PSI	18.6	22.7	26.3	30.4	38.1	45.8	53.5
3"	ft1502	15000PSI	33.1	41.3	49	56.7	72.6	88.5	
4"	ft1002	10000PSI		93	112	130.5	168	206	

Technical data of split high-pressure straight pipe

Bore (in)	Connection Type	Working Pressure	2ft	3ft	4ft	5ft	6ft	8ft	10ft	12ft
2"	ft1502	15000PSI	14.5	17.7	20.9	24	27.2	33.1	39.5	45.8
3"	ft1502	15000PSI	25.4	31.8	38.1	44.9	51.3	64.4	77.1	90.3
4"	ft1002	10000PSI	35.8	45.5	55.3	64.9	74.8	93.9	113	133

High-pressure Steel Wire Braided Rubber Hose

There are three types of steel wire braided rubber hose, the main difference is how many layers of steel wire braid enhancement is used for each type.

Structure: an inner tube of oil synthetic rubber, one layer of steel wire braid enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 100+ C

Standard: GB/T3683.1-2006

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure		Proof Pressure		Burst Pressure		Min Bend Radius (mm)	Weight (kg/m)
				Mpa	PSI	Mpa	PSI	Mpa	PSI		
1-5-21	5±0.5	9.5±0.6	12.7±0.8	21	3043	31.5	4564	63	9129	90	0.25
1-6-20	6±0.5	11.7±0.6	16 $^{+1.0}_{-0.8}$	21	3043	31.5	4564	63	9129	100	0.34
1-8-17.5	8±0.5	13.7±0.6	18 $^{+1.0}_{-0.8}$	18	2536	27	3804	54	7607	115	0.41
1-10-16	10±0.5	15.7±0.6	20 $^{+1.0}_{-0.8}$	16	2318	24	3478	48	6955	130	0.47
1-13-14	13±0.5	19.7±0.6	24 $^{+1.2}_{-1.0}$	14	2028	21	3043	42	6086	180	0.67
1-16-12	16±0.5	22.7±0.8	27 $^{+1.2}_{-1.0}$	12	1739	18	2608	36	5216	205	0.70
1-19-10	19±0.5	25.7±0.8	30 $^{+1.2}_{-1.0}$	10	1449	15	2174	30	4347	240	0.84
1-22-9	22±0.5	28.7±0.8	33 $^{+1.2}_{-1.0}$	9	1304	13.5	1956	27	3912	280	0.95
1-25-8	25±0.5	32.2±0.8	37 $^{+1.5}_{-1.2}$	8	1159	12	1739	24	3478	300	1.09
1-32-6	32±0.7	39.2±0.8	44 $^{+1.5}_{-1.2}$	6	869	9	1304	18	2608	420	1.24
1-38-5	38±0.7	45.2±0.8	50 $^{+1.5}_{-1.2}$	5	725	7.5	1087	15	2174	500	1.80
1-51-4	51±0.7	58.2±0.8	63 $^{+1.5}_{-1.2}$	4	579	6	8694	12	1739	630	2.80
1-64-2.5	64±1.0	71±1.0	75±1.5	2.5	362	3.75	543	7.5	1087	770	4.00
1-76-1.5	76±1.0	84±1.0	88±1.5	1.5	217	2.25	326	4.5	652	930	5.50
1-89-1	89±1.0	97±1.0	103±1.5	1	144.9	1.5	217	3	435	1100	7.60
1-102-1	102±1.0	111±1.0	115±1.5	1	144.9	1.5	217	3	435	1250	9.00
1-127-1.5	125±2.0	141±1.5	136±1.5	1.5	216			4.5	435	1250	9.00

Structure: an inner tube of oil synthetic rubber, two layers of steel wire braid enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 100+ C

Standard: GB/T3683.1-2006

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure		Proof Pressure		Burst Pressure		Min Bend Radius (mm)	Weight (kg/m)
				Mpa	PSI	Mpa	PSI	Mpa	PSI		
2-5-60	5±0.5	11.2±0.6	15±0.8	60	8694	90	13041	150	21735	90	0.40
2-6-60	6±0.5	13.5±0.6	18 $^{+1.0}_{-0.8}$	60	8694	90	13041	150	21735	100	0.45
2-8-50	8±0.5	15.5±0.6	20 $^{+1.0}_{-0.8}$	50	7245	75	10868	125	18113	115	0.62
2-10-40	10±0.5	17.5±0.6	22 $^{+1.0}_{-0.8}$	40	5796	60	8694	100	14490	130	0.71
2-10-53 enhanced	10±0.5	17.5±0.6	22 $^{+1.0}_{-0.8}$	53	7680	79.5	11520	132	19127	130	0.71
2-13-30	13±0.5	21.5±0.8	26 $^{+1.2}_{-0.8}$	30	4347	45	6520	90	13041	180	0.93
2-13-36 enhanced	13±0.5	21.5±0.8	26 $^{+1.2}_{-0.8}$	36	5200	54	7800	108	15650	180	0.93
2-16-21	16±0.5	24.5±0.8	29 $^{+1.2}_{-0.8}$	21	3043	31.5	4565	63	9129	205	1.00
2-16-34 enhanced	16±0.5	24.5±0.8	29 $^{+1.2}_{-0.8}$	34	4926	51	7390	96	13960	205	1.00
2-19-18	19±0.5	27.5±0.8	32 $^{+1.2}_{-0.8}$	18	2608	27	3912	54	7825	240	1.23
2-19-34 enhanced	19±0.5	27.5±0.8	32 $^{+1.2}_{-0.8}$	34	4926	51	7390	85	12317	240	1.23
2-22-16	22±0.5	30.5±0.8	35 $^{+1.2}_{-0.8}$	16	2318	24	3478	48	6955	280	1.38
2-25-15	25±0.5	34±0.8	39 $^{+1.2}_{-0.8}$	15	2174	22.5	3260	45	6520	300	1.54
2-25-21 enhanced	25±0.5	34±0.8	39 $^{+1.2}_{-0.8}$	21	3043	31.5	4564	54	7825	300	1.54
2-32-11	32±0.7	41±0.8	46 $^{+1.5}_{-0.8}$	11	1594	16.5	2391	33	4782	420	1.75
2-38-10	38±0.7	47±0.8	52 $^{+1.5}_{-0.8}$	10	1449	15	2174	30	4347	500	2.05
2-51-8	51±0.7	60±0.8	65 $^{+1.5}_{-0.8}$	8	1159	12	1789	24	3478	630	2.65
2-64-5	64±1.0	73±1.0	77±1.5	5	725	7.5	1087	15	2174	790	3.35
2-76-4	76±1.0	86±1.0	90±1.5	4	580	6	895	12	1789	920	4.05
2-89-3	89±1.0	99±1.0	103±1.5	3	435	4.5	652	9	1304	1060	4.38
2-102-3	102±1.0	113±1.0	117±1.5	3	435	4.5	652	9	1304	1200	5.05
2-127-3	127±1.0	138±1.0	143±1.5	2	290	3	448	6	869	1500	6.72
2-152-2.5	152±1.0	164±1.0	169±1.5	2.5	362	3.75	544	7.5	1087	1800	8.20
2-203-2	203±1.0	216±1.5	222±2.0	2	290	3	448	6	869	2300	11.75

Structure: an inner tube of oil synthetic rubber, three layers of steel wire braid enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 100+ C

Standard: GB/T3683.1-2006

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure		Proof Pressure		Burst Pressure		Min Bend Radius (mm)	Weight (kg/m)
				Mpa	PSI	Mpa	PSI	Mpa	PSI		
3-5-72	5±0.5	13.2±0.6	17±1.0	72	10433	108	15649	180	26082	120	0.5
3-6-68	6±0.5	15±0.6	19±1.0	68	9863	102	14780	170	24633	140	0.56
3-8-54	8±0.5	17.5±0.6	22±1.0	54	7825	81	11737	120	17388	160	0.83
3-10-44	10±0.5	19.5±0.6	24±1.0	44	6376	66	9563	110	15939	180	0.95
3-13-36	13±0.5	23.5±0.8	28±1.2	36	5200	54	7800	108	15650	240	1.22
3-16-32	16±0.5	26.5±0.8	31±1.2	32	4625	48	7000	96	13900	300	1.3
3-19-28	19±0.5	29.5±0.8	34±1.2	28	4050	42	6010	84	12150	330	1.62
3-22-26	22±0.5	32.5±0.8	37±1.2	26	3750	35	5650	65	9418	380	1.81
3-25-24	25±0.5	36±0.8	41±1.2	24	3500	36	5200	60	8694	400	1.99
3-32-13	32±0.7	43±0.8	48±1.5	13	1884	19.5	2826	39	5651	450	2.46
3-38-12	38±0.7	49±0.8	54±1.5	12	1789	18	2608	36	5216	500	3.08
3-51-10	51±0.7	62±0.8	67±1.5	10	1449	15	2174	30	4347	630	3.96
3-64-6	64±1.0	75±1.0	80±1.5	6	895	9	1304	18	2608	790	4.72
3-76-5	76±1.0	88±1.0	92±1.5	5	725	7.5	1087	15	2174	960	5.69
3-89-4	89±1.0	101±1.5	105±1.5	4	580	6	895	12	1789	1100	6.8
3-102-3.5	102±1.0	115±1.0	119±1.5	3.5	507	5.25	761	10.5	1521	1280	7.34
3-127-3	127±1.0	140±1.0	145±1.5	3	435	4.5	652	9	1304	1560	8.45

High-pressure steel wire spiraled rubber hose

There are three types of steel wire spiraled rubber hose, the main difference is how many layers of steel wire spiral enhancement is used for each type.

Structure: an inner tube of oil synthetic rubber, two layers of steel wire spiral enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 120+ C

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure (Mpa)	Proof Pressure (Mpa)	Burst Pressure (Mpa)	Min Bend Radius (mm)	Weight (kg/m)
6x2SP	6±0.5	12.5±0.6	16±0.8	60	120	180	130	0.4
8x2SP	8±0.5	14.5±0.6	18±0.8	60	120	180	145	0.55
10x2SP	10±0.5	17±0.6	21±0.8	60	120	180	160	0.75
13x2SP	13±0.5	21.6±0.8	25±1.0	46	92	130	210	0.9
16x2SP	16±0.5	24.5±0.8	28±1.0	35	70	105	260	1
19x2SP	19±0.5	27±0.8	31±1.0	28	42	84	280	1.3
22x2SP	22±0.8	31±0.8	35±1.0	24	36	72	320	1.45
25x2SP	25±0.8	33±0.8	38±1.5	21	42	63	360	1.54
32x2SP	32±0.8	41±0.8	46±1.5	20	40	60	460	2.14
38x2SP	38±0.8	50±0.8	54±1.5	18	36	54	560	2.6
51x2SP	51±1.0	60.8±1.0	65±1.5	14	28	42	720	3.42
64x2SP	64±1.0	72±1.0	78±1.5	12	24	36	790	4.1
76x2SP	76±1.0	92±1.0	99±1.5	10	20	30	920	12
102x2SP	102±2.0	123±2.0	130±2.0	9	18	27	1200	14
127x2SP	127±2.0	134±2.0	141±2.0	8	16	24	1500	16
152x2SP	152±2.0	173±3.0	180±4.0	8	16	24	2280	18
203x2SP	203±2.0	225±3.0	232±4.0	8	16	24	3050	24
254x2SP	254±2.0	280±3.0	288±4.0	8	16	24	3810	30
305x2SP	305±2.0	330±3.0	338±4.0	8	16	24	4510	36

Structure: an inner tube of oil synthetic rubber, four layers of steel wire spiral enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 120+ C

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure (Mpa)	Proof Pressure (Mpa)	Burst Pressure (Mpa)	Min Bend Radius (mm)	Weight (kg/m)
6x4SP	6±0.5	14.4±0.8	19±1.0	100	150	210	130	0.65
8x4SP	8±0.5	16.4±0.8	20.5±1.0	80	120	210	145	0.85
10x4SP	10±0.5	19.2±0.8	24±1.0	70	105	210	160	1.03
13x4SP	13±0.5	22.2±0.8	27±1.0	60	90	180	210	1.12
16x4SP	16±0.5	26±0.8	30±1.0	55	82.5	165	260	1.72
19x4SP	19±0.5	30±0.8	35±1.5	46	69	140	280	2.08
22x4SP	22±0.8	33±0.8	37±1.5	40	60	120	320	2.39
25x4SP	25±0.8	36±0.8	41±1.5	35	52.5	112	360	2.51
32x4SP	32±0.8	44±0.8	49±1.5	32	46	96	460	3.12
38x4SP	38±1.0	50.8±1.0	56±1.5	25	37.5	75	560	4.31
45x4SP	45±1.0	57.8±1.0	61.8±1.5	23	34.5	69	650	4.87
51x4SP	51±1.0	63±1.0	69±1.5	20	30	60	720	5.4
51x4SP	51±1.0	63±1.0	69±1.5	35	70	87.5	900	5.7
64x4SP	64±1.2	77±1.0	84±1.5	35	70	87.5	1100	6.7
76x4SP	76±1.4	101±1.5	107±2.0	35	70	87.5	1200	16.5
89x4SP	89±1.4	114±1.5	120±2.0	35	70	87.5	1300	18.4
102x4SP	102±1.5	127±1.5	133±2.0	35	70	87.5	1400	20.3
127x4SP	127±1.5	156±1.5	164±2.0	35	70	87.5	1500	22
152x4SP	152±2.0	184±3.0	192±4.0	16	32	48	2580	24
203x4SP	203±2.0	235±3.0	243±4.0	16	32	48	3350	31
254x4SP	254±2.0	291±3.0	299±4.0	16	32	48	4110	39

Structure: an inner tube of oil synthetic rubber, six layers of steel wire spiral enhancement and an oil & weather resistant synthetic rubber cover.

Product usage: it is used for carrying hydraulic fluid, such as glycol, fuel, lubricant, emulsion, hydrocarbon etc.

Working pressure: -40 C to 120+ C

Specifications and technical data

Model	Inner Diameter (mm)	Reinforcement Diameter (mm)	Outside Diameter (mm)	Working Pressure (Mpa)	Proof Pressure (Mpa)	Burst Pressure (Mpa)	Min Bend Radius (mm)	Weight (kg/m)
6x6SP	6±0.5	16.6±0.8	20.6±1.0	110	220	310	180	0.95
10x6SP	10±0.5	21.8±0.8	28.8±1.0	77	154	231	210	1.48
13x6SP	13±0.5	24.8±0.8	28.8±1.0	66	132	198	260	1.75
16x6SP	16±0.5	29±0.8	33±1.0	61	122	183	310	2.02
19x6SP	19±0.5	33±0.8	37±1.5	51	102	156	350	2.49
25x6SP	25±0.8	39±0.8	44±1.5	51	102	153	430	2.82
32x6SP	32±0.8	47±0.8	50.4±1.5	45	90	135	530	3.79
38x6SP	38±1.0	54.2±1.0	57.6±1.5	45	90	135	660	5.76
51x6SP	51±1.0	66±1.0	72±1.5	70	140	175	1000	9.5
64x6SP	64±1.2	81±1.0	88±1.5	70	140	175	1200	13.6
76x6SP	76±1.4	109±1.5	116±2.0	70	140	175	1300	23.7
89x6SP	89±1.4	122±1.5	129±2.0	70	140	175	1400	26.6
102x6SP	102±1.4	135±1.5	142±2.0	70	140	175	1600	29.8

Self-sealing pipe union

The self-sealing pipe union automatically opens after being assembled and closes when disassembled, which can avoid polluting environment by out-flowing medium, save operational cost, prevent mechanical wear caused by sand and dust entering the pipes and machines, and reduce potential accidents. The material used fully comply with ASTM and AISI. The product and parts are all treated against corrosion. It is high pressure resistant, sealing reliable and standardized.

The universal self-sealing fitting can automatically adjust itself depending on the connection direction, it is effective to reduce fatigue resistance of the pipelines. There are two major types based on structure, Quick self-sealing steel ball union and Pin key plug-in self-sealing union.

Specifications and technical data of self-sealing pipe unions

Nominal Diameter (mm)	Total Length (mm)	Max Working Pressure (Mpa)	Proof Pressure (Mpa)	Flow Rate (l/min)	Connection Thread
6	62	52	78	16	M14x1.5
8	80	52	78	25	M16x1.5
10	90	52	78	40	M22x1.5
12	100	45	67.5	50	M27x1.5
15	106	45	67.5	63	M30x1.5
20	110	45	67.5	100	M36x2/1"NPT
25	128	35	52.5	160	M42x2/1"NPT
32	160	35	52.5	250	M52x2
40	190	21	31.5	400	M60x2
51	204	16	24	630	M68x2

Part 2: Hoisting Equipment

Typical components of the hoisting system in a drilling rig would include the crown block with its support beams, traveling block with its guide track and dolly, sheaves for the crown block and traveling block, deadline anchors, drawworks, drilling hook, top drive, drilling line and sand line, drilling elevators and links, hydraulic cylinders for overhead hoisting power swivel, power subs, adapters, bells, and rotary swivel, wire rope and hoisting equipment gears.

Crown Block

Features

- ✧ Follow API 4F, 8A/8C;
- ✧ Sheave grooves are heat hardened, providing good abrasion resistance and long-life service;
- ✧ Rope bar and rope barrier are adopted to prevent the drilling line from crossing or tailing out of the sheave grooves;
- ✧ Wooden buffer, lifting frame for maintaining sheaves assembly, sand sheave and auxiliary sheave assembly are adopted;
- ✧ Crown block sheaves are interchangeable with its matched traveling blocks.

Specifications of crown block

Model		TC90	TC170	TC225	TC315	TC450	TC585	TC675	TC675H	TC900
Max. Load (kN)		900	1700	2250	3150	4500	5850	6750	6750	9000
Drilling line size (mm)		26	29	32	35	38	38	45	38	48
Sheaves O.D (mm)		762	1005	1120	1270	1524	1524	1524	1524	1829
Number of sheaves		5	6	6	7	7	7	8	8	8
Overall Dimensions (mm)	Length	2317	2668	2668	3192	3410	3625	4650	5180	4217
	Width	2076	2460	2709	2783	2753	2832	3340	3220	3606
	Height	1577	1855	2469	2350	2420	2580	2702	2904	3146
Weight (kg)		2668	4540	6500	8500	11105	12100	13750	18780	18000

Travelling Block

Features

- ✧ The sheave groove size and the radius of the contact surface of the bail follow API specification 8C;
- ✧ Sheave grooves are medium-frequency induction hardened, which can prolong the sheave service life;
- ✧ Sheaves and bearings can be interchanged with those of the crown block.

Specifications of travelling block

Model		YG135	YG170	YC170	YC225	YC315	YC450	YC585	YC675	YC900
Max. Load (kN)		1350	1700	1700	2250	3150	4500	5850	6750	9000
Drilling line size (mm)		29	29	29	32	35	38	38	45	48
Number of sheaves		4	5	5	5	6	6	6	7	7
Overall Dimensions (mm)	Length	3294	3400	2030	2294	2690	3110	3132	3410	3830
	Width	960	960	1060	1190	1350	1600	1600	1600	1905
	Height	610	715	620	630	800	840	840	1150	1235
Weight (kg)		4350	4590	2410	3788	5500	8300	8556	10805	15000

Hook

Features

- ✧ The swing lock arm is provided with a robust and dependable lock;
- ✧ The major stressed parts are subject to the non-destructive test;
- ✧ The contact surface radius of bail, link ears and locking arm all follow API specification 8C.

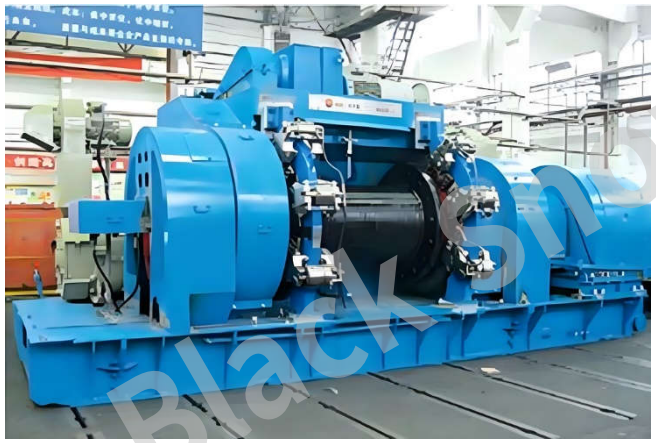
Specifications of hook

Model	DG-50	DG-100	DG-135	DG-225	DG-315	DG-450	DG-675	DG-900
Max. Load (kN)	500	1000	1350	2250	3150	4500	6750	9000
Spring travel (mm)	140	140	150	180	200	200	2200	250
Opening size of hook (mm)	130	150	165	190	220	220	234	305
Overall Dimensions (mm, L x W x H)	1660×522 ×500	1900×765 ×700	1997×700 ×730	2548×780 ×750	2960×890 ×835	2960×890 ×880	3705× 1210×930	4150×1135 ×1090
Weight (kg)	419	1310	1685	2175	3430	3520	7065	10500

Drawwork

Features

SCR/DC Drawworks: Shafts adopt superior alloy steel; Bearing adopts roller bearing totally; The drum is LEBUS grooved. Both high speed and low speed ends are equipped with ventilated type air-tube clutches; The main brake is hydraulic disc brake or band brake; The auxiliary brake is eddy current brake or Eaton brake; Chains are pressure lubricated and bearings are greased.



Specifications of DC drawworks

Model	JC10B	JC15DB	JC30B	JC40B	JC50B	JC50D	JC70B	JC70D
Rated. input power (kW)	210	500	440	735	1100	1100	1470	1470
Max. pulling of fast- line (kN)	80	150	210	280	350	350	487	487
Diameter of wire rope (mm)	22	26	29	32	35	35	38	38
Drum size (mm, D x W)	400×650	473×900	560×1304	640×1208	685×1160	770×1310	770×1310	770×1310
Sand drum size (mm, D x W)	-	-	-	-	-	400×1320	-	400×1460
Sand drum capacity (m)	-	-	-	-	-	5000	-	7000
Hoisting speeds	2F+2R	2F+2R	4F	4F+2R	4F(6F)+2R	4F+4R	4F(6F)+2R	4F+4R
peeds for cathead shaft	2	-	2	2	-	2	-	2
Auxiliary brake	-	DWS15	DWS40	DWS40	DWS50	DWS50	DWS70	DWS70
Overall dimensions (mm, L x W x H)	7390×2500 ×2410	4500×2400 ×2500	6000×2850 ×2380	6300×2628 ×2699	6760×2565× 2881	7190×4335 ×3216	7100×2920 ×2945	7370×4335 ×3216
Weight (kg)	9819	11000	27300	28000	34203	49600	46050	55809

VFD/AC Drawworks: The single/dual speed drawworks has compact size, light weight, little vibration, low noise, high efficiency and long service life; It adopts AC-DC-AC VFD drive, with wide speed change range and can meet all kinds of drilling requirements; The single/dual speed drawworks consists of AC VFD(variable frequency drive) motors, gearbox, hydraulic disc brake, frame, drum shaft assembly and automatic driller system; Drawworks is driven by VFD motors to realize step-less speed regulation, providing high efficiency in gear transmission, with small vibration, low noise and long service life; The drawworks is single LEBUS grooved drum in structure, compared with other drawworks with same capacity. It features simple structure, small volume and light weight; The drawworks adopts hydraulic disc brake and regenerating brake; The drawworks can realize automatic drilling by independent motor; Transmission is made of one or two gears reducer.

Specifications of AC drawworks

Model	JC30DB	JC40DB	JC50DB	JC70DB	JC90DB	JC120DB
Rated. Input power (kW)	600	800	1100	1470	3200	4400
Max. pulling of fast- line (kN)	210	280	350	450	640	851
Diameter of wire rope (mm)	29	32	35	38	45	48
Drum size (mm, D x W)	560×1000	644×1208	770×1310	770×1434	1060×1840	1320×2312
Auxiliary brake	Regenerating brake	DWS40	Regenerating brake			
Overall dimensions (mm, L x W x H)	4700×2800× 2552	7000×3695× 3010	6530×3192× 2680	7920×3050× 2680	10000×3350× 3035	12000×3350× 3260
Weight, kg	19600	39125	36000	46500	763000	111000

Rotary Table

Features

- ✧ Special structure design, fitting for heavy-duty working situation;
- ✧ The pinion and gear set is made of ally steel;
- ✧ The extension and its keyway of the pinion shaft all meet API Spec 7K;
- ✧ The master bushing is made of steel casting meeting API Spec 7A in size. The pin drive is suitable for the roller bushing of API square Kelly or hexagonal Kelly and the long or short slip is used. The rotary table features full lubrication and the reliable seal.

Specifications of AC rotary table

Model	ZP175	ZP205	ZP275	ZP375	ZP375Z	ZP495
Table opening (mm/in)	444.5 (17 1/2)	520.7 (20 1/2)	698.5 (27 1/2)	952.5 (37 1/2)	952.5 (37 1/2)	1257.3 (49 1/2)
Static load rating (kN)	2700	3150	4500	5850	7250	9000
Max. working torque (Nm)	13729	22555	27459	32362	45000	64400
Distance (from table axis to centerinner-row of sprocket teeth)	1118 (44)	1353 (53 1/4)	1353 (53 1/4)	1353 (53 1/4)	1353 (53 1/4)	1651 (65)
Gear ratio	3.75	3.22	3.67	3.56	3.62	4.0883
Max. Speed (r/min)	300	300	300	300	300	300
Input shaft center height (mm)	260.4	318	330	330	330	368
Overall dimensions (mm, L x W x H)	1972×1372×566	2266×1475×704	2380×1475×690	2468×1920×718	2468×1810×718	3015×2254×819
Net weight (include master bushing and exclude sprocket, kg)	4172	5662	6122	7970	9540	11260

Swivel

Features

- ✧ The wash pipe and packing assembly is of cartridge type and can be replace on the drill floor without disconnecting the rotary hose and the gooseneck.
- ✧ The contact surface radius of the bail conforms to API 8C specification.
- ✧ Expendable parts have good interchangeability.

Model		SL135	SL170	SL225	SL450	SL675	SL770
Max. static load (kN)		1350	1700	2250	4500	6750	7700
Max.Speed (r/min)		300	300	300	300	300	300
Max. working pressure (Mpa)		35	35	35	35	35	35
Stem I . D (mm)		64	64	75	75	102	102
Hook clearance (mm)		495	495	540	549	628	628
Sub thread	To stem API	4 1/2"	4 1/2"	6 5/8"	7 5/8"	8 5/8"	8 5/8"
		REG, LH	REG, LH	REG, LH	REG, LH	REG, LH	REG, LH
	To Kelly API	6 5/8"	6 5/8"	6 5/8"	6 5/8"	6 5/8"	6 5/8"
		REG, LH	REG, LH	REG, LH	REG, LH	REG, LH	REG, LH
Overall dimensions (mm, L x W x H)		2505×758×840	2786×706×791	2880×1010×1110	3035×1096×1110	3775×1240×1406	3820×1410×1240
Weight (kg)		1341	1834	2815	3060	6880	7215

Part 3: Mud Circulation Equipment

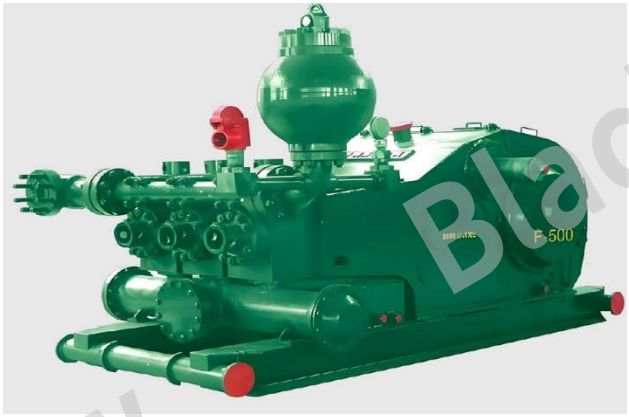
Mud Pump

Our mud pumps are made in China, we can provide multiple Chinese brands and the spare parts. All of our mud pumps and spare parts meet the industry standards (API). Multi-types of mud pumps can be provided, F series triplex mud pump, F1 series light weight mud pump, QDP 3000 drilling pump and P series mud pumps.

F-series triplex mud pumps

The F-series triplex mud pump has advanced and compact structure, and stable operation, which can meet particular requirements of oil field high pressure pumps and high displacement drilling, during middle-deep drilling operation.

The utilized durable hydraulic end of the F-series mud pump greatly increases the performance. And the independent design is convenient for rapid inspection and maintenance.



Specifications of F-series triplex mud pumps

Model		F-500	F-800	F-1000	F-1300	F-1600/F-1600L	F-1600HL	F-2200	F-2200HL
Rated Power	HP	500	800	1000	1300	1600	1600	2200	2200
	kW	373	597	746	969	1193	1193	1640	1640
Rated Pump Speed (SPM)		165	150	140	120	120	120	105	105
Max. Liner Bore	in	6-3/4"	6-3/4"	6-3/4"	7"	7"	7-1/2"	9"	9"
	mm	170	170	170	180	180	190	230	230
Stroke Length	in	7-1/2"	9"	10"	12"	12"	12"	14"	14"
	mm	191	229	229/254	305	305	305	356	356
Gear Ratio		4.286	4.185	4.207	4.206	4.206	4.206	3.512	3.512
Suction Connection (in)		8''	10''	12''	12''	12''	12''	-	-
Discharge Connection (in)		4''	5''	5''	5''	5''	5''	5''	5''
Pinion Shaft Dia.	in	5-1/2"	7"	7-3/4"	8-1/2"	8-1/2"	8-1/2"	10"	10"
	mm	139.7	177.8	196.9	215.9	215.9	215.9	254	254
Key	in	1-1/4"x1-1/4"	1-3/4"x1-3/4"	2"x2"	2"x2"	2"x2"	2"x2"	2-1/2"x1-3/4"	2-1/2"x1-3/4"
	mm	31.75x31.75	44.45x44.45	50.8x50.8	50.8x50.8	50.8x50.8	50.8x50.8	63.5x44.45	63.5x44.45
Valve Pot		Valve over Valve, API 5#	Valve over Valve, API 6#	Valve over Valve, API 6#	Valve over Valve, API 7#	Valve over Valve, API 7#/L type, API 7#	L type, API 7#	Valve over Valve, API 8#	L type, API 8#
Host weight	lbs	21540	31970	41420	54170	54660/57100	64820	84790	94980
	kg	9770	14500	18790	26700	24791/27020	29400	38460	44000

Note: L in Model indicates split type cylinder and H high pressure

F1-series light weight mud pumps and QDP 3000 drilling pump

F1-series light weight mud pump is 20% to 25% lighter than same model of F-series under approximately equivalent power, displacement, pump pressure.

QDP-3000 drilling pump is the largest power of quintuple drilling pump. The max pressure is 51.7MPa (7500PSI), and the largest displacement is 76.34L/S.

Specifications of F1-series light weight mud pump and QDP-3000

Model	Rated Power		Rated Pump Speed (SPM)	Max. Liner Bore		Stroke Length		Max. discharge capacity		Max. pressure		Valve Pot	Host weight	
	HP	kW		in	mm	in	mm	l/s	GPM	Mpa	psi		lbs	kg
F1-800	800	597	160	6-3/4"	170	8-1/2"	216	39.22	622	34.5	5000	Valve over Valve, API 6#	25435	11535
F1-1600	1600	1193	130	7"	180	11"	280	46.31	734	34.5	5000	Valve over Valve, API 7#	45660	20709
F1-2200H	2200	1640	115	8-1/4"	210	13"	330	65.72	1042	52	7500	Valve over Valve, API 7#	72459	32864
QDP-3000	3000	2237	117	7"	180	11-3/4"	300	76.34	1210	52	7500	J type, API 8#	90438	41018

P-series mud pumps

P series mud pumps which are compact-sized with reliable performance can be used for offshore drilling equipment with higher quality requirements. There are 5 types of P series mud pumps for selection, whose input power ranges from 800HP (597kW) to 2200HP (1640 kW).

Specifications of P-series mud pump

Model	Rated Power		Rated Pump Speed (SPM)	Max. Liner Bore		Stroke Length		Gear Ratio	Suction Connection (in)	Discharge Connection (in)	Valve Pot	Host weight	
	HP	kW		in	mm	in	mm					lbs	kg
P-800	800	597	160	6-1/4"	158.8	8-1/2"	215.9	2.463	8"	4"	MOD.6	26970	12235
P-1000	1000	746	150	6-3/4"	171.5	9-1/4"	235	2.658	8"	5"	MOD.6	33200	15060
P-1300	1300	969	140	6-3/4"	171.5	10"	254	2.853	8"	5"	MOD.6	42550	19300
P-1600	1600	1193	120	7-1/4"	184.2	12"	304.8	3.439	10"	6"	MOD.7	54700	24810
P-2200	2200	1640	105	9"	228.6	14"	355.6	3.969	10"	6"	MOD.8	82000	37195

Mud Pump Spare Parts

We provide mud pump spare parts for the replacement of various OEM mud pumps. All the spare parts follow API standards.

Fluid end module

Liner

Valve and seats

Piston

Piston rod

Valve guide

Extension rod

Crankshaft

Crank rod

Pinion shaft

Crosshead

Crosshead guide

Gear

Big main gear ring

Pulsation dampener

Pulsation dampener Shell

Bladder

Cylinder cover

Discharge five tee

Discharge filter

Discharge manifold

Intake liner

Pressure meter

Shear relief valve

Plug board assembly

Clamp assembly

Part 4: Wellhead Tool

Wellhead Tools include the elevator, tong, slip, safety clamp, lift sub, bit breaker and spinner. They are the tools used for wellhead operation on the drilling rig, helping to hang, lift and drop the drill pipe, casing (milling) pipe, tubing and other pipe strings. Our multiple wellhead tools are made in China following API standards, they can be used to support oil field well head operations.

Elevators

DD Elevator

Model	Size (in)			Rated Capacity (short tons)
	DP	Casing	Tubing	
DD-150	2.3/8~5.1/2	4.1/2~5.1/2	2.3/8~4.1/2	150
DD-250	2.3/8~5.1/2	4.1/2~5.1/2	2.3/8~4.1/2	250
DD-350	2.3/8~5.1/2	4.1/2~5.1/2	2.3/8~4.1/2	350

CDZ Elevator

Model	Size (in)	Rated Capacity (Short tons)
CDZ-150	2.3/8~5	150
CDZ-250	2.3/8~5	250
CDZ-350	2.7/8~5.1/2	350
CDZ-500	3.1/2~5.1/2	500

CD Elevator

Model	Size (in)	Rated Capacity (Short tons)
CD-100	2.3/8~5.1/2	100
CD-150	2.3/8~14	150
CD-200	2.3/8~14	200
CD-250	2.3/8~20	250
CD-350	4.1/2~20	350
CD-500	4.1/2~14	500

Single Joint Elevator

Model	Size		Rated Capacity (KN)
	in	mm	
Auxiliary Elevator	2.3/8~2.7/8	60.3-73.03	45
	3.1/2~4.4.3/4	88.9-120.7	
	5~5.3/4	127-146.1	
	6~7.3/4	152.4-193.7	
	8.5/8~10.3/4	219.1-273.1	
	11.3/4~13.3/8	298.5-339.7	
	13.5/8~14	346.1-355.6	
	16~20	406.4-508.0	
	21.1/2~24.1/2	546.1-622.3	60
	26~28	660.4-711.2	
	30~36	762.0-914.4	

SLX Elevator

c	Size (in)	Rated Capacity (Short tons)
SLX-100	2.3/8~5.3/4	100
SLX-150	5.1/2~20	150
SLX-250	5.1/2~30	250
SLX-350	4.1/2~14	350

Y series Slip Elevator

Model	Size (in)	Rated Capacity (Short tons)
LYT	1.05~2.1/16	20
MYT	1.315~2.7/8	40
YT	1.315~3.1/2	75
YC	3.1/2~7	75
MYC	3.1/2~7	125
HYT	2.3/8~3.1/2	150
HYC	3.1/2~7.5/8	200

TA Elevator

Model	Size (in)				Rated Capacity (Short tons)
	DC	Tubing		Casing	
		NU	EU		
TA-35	2.7/8~3.1/8	1.05~2.7/8	1.05~2.7/8	/	35
TA-65	2.7/8~3.1/8	1.66~2.7/8	1.66~2.7/8	/	35
TA-100	3.1/8-5.1/4	2.3/8~5	2.3/8~4.1/2	/	100
TA-150	4.1/8-11.1/4	/	/	4.1/2~11.3/4	150

DDZ Elevator

Model	Size (in)	Rated Capacity (Short tons)	Remark
DDZ-100	2.3/8~5	100	MG
DDZ-150	2.3/8~5.1/2	150	RG
DDZ-250	2.3/8~5.1/2	250	MGG
DDZ-350	2.3/8~5.7/8	350	GG
DDZ-500	3.1/2~6.5/8	500	HGG

Slips

CMS-XL Casing Slip

Casing OD	Specification Of Body
4.1/2-5	/
5.1/2-6	/
6.5/8~30	/

A Drill Collar Slip

Model	DC.OD.		Use in Insert Bowl No.
	in	mm	
Drill Collar Slips Type A	3~4.1/2	76.2-114.3	API or No.3
	3.1/4~4.3/4	82.55-120.65	
	4.1/4~5.3/4	107.95-146.05	
	5.1/2~7	139.7-177.8	
	6.3/4~8.1/4	171.5-209.55	
	8.1/4~10	209.55-254	No.2
	10~11.3/4	254-298.45	

UC-3 Casing Slip

Casing OD	Specification Of Body	Total Number Of Segments	Rated Capacity
7~8.5/8	8.5/8	10	250
9~10.3/4	10.3/4	10	
11.3/4~13.3/8	13.3/8	12	
16~42	As same as 13.3/8	14~32	

DCS Drill Collar Slip

Model	DC.OD.		Use in Insert Bowl No.
	in	mm	
DCS-S	3~4	76.2-101.6	API or No.3
	4~4.7/8	101.6-123.8	
DCS-R	4.1/2~6	114.3-152.4	
	5.1/2~7	139.7-177.8	
DCS-L	6.3/4~8.1/4	171.4-209.6	
	8~9.1/2	203.2-241.3	
	8.1/2~10	215.9-254	No.2
	9.1/4~11.1/4	235-285.7	
	11~12.3/4	279.4-323.9	No.1

DU Drill Pipe Slip

Model	DP OD. (in)	Size of Slip Bodies
DU	2.3/8~4.1/2	4.1/2
	3.1/2~5.1/2	5.1/2
	4.1/2~7	7
DUL	2.3/8~4.1/2	4.1/2
	3.1/2~5.1/2	5.1/2
	4.1/2~7	7
SDU	3.1/2~5.1/2	5.1/2
	4.1/2~7	7

SD Drill Pipe Slip

Model	DP OD. (in)	Size of Slip Bodies
SDS	2.3/8~3.1/2	3.1/2
	3.1/2~4.1/2	4.1/2
	4~5	5
SDML	2.3/8~3.1/2	3.1/2
	3.1/2~4.1/2	4.1/2
	4~5	5
	4.1/2~5.1/2	5.1/2
SDXL	3.1/2~4.1/2	4.1/2
	4~5	5
	4~5.1/2	5.1/2
	5.3/4~5.7/8	5.7/8
	6.5/8~7	7

Safety Clamps

C/T Safety Clamps

Model	Size Range (in)	Total Number of Links
WA-C	3.3/4~4.5/8	7
	4.1/2~5.5/8	8
	5.1/2~6.5/8	9
	6.1/2~7.5/8	10
	7.1/2~8.5/8	11
	8.1/2~9.5/8	12
	9.1/2~10.5/8	13
	10.1/2~11.5/8	14
	11.1/2~12.5/8	15
	12.1/2~13.5/8	16
	13.1/2~14.5/8	17
	14.1/2~15.5/8	18
WA-T	1.1/8~2	4
	2.1/8~3.1/4	5
	3.1/2~4.1/2	6

Spiders

C/E Pneumatic Spider

Model	OD of Tubulars	Specification of Slip Bodies	Rated Capacity (short tons)
C	1.315~3.1/2	3.1/2	80
	3.1/2~4.1/4	4.1/2	
	4.3/4	4.3/4 (Integral)	
	5	5 (Integral)	
	5.1/2	5.1/2 (Integral)	
CHD	1.315~3.1/2	3.1/2	125
	3.1/2~4.1/4	4.1/2	
	4.3/4	4.3/4 (Integral)	
	5	5 (Integral)	
	5.1/2	5.1/2 (Integral)	
E	2.3/8~3.1/2	3.1/2	175

Elevator / Spider

Model	Applicable Diameter of Tubulars (in)	Rated Capacity (Short tons)	Work Pressure (MPa)	Max.Pressure (MPa)
SE-150	2.3/8~5.1/2	150	0.6-0.8	1
SE-350(14)	4~14	350	0.6-0.8	1
SE-350(20)	16~20	350	0.6-0.8	1
SE-500(14)	4~14	500	0.6-0.8	1
SE-500(24.1/2)	16~24.1/2	500	0.6-0.8	1

JOY Spider

Model	Applicable Diameter of Tubulars (in)	Taper	Rated Capacity (short tons)
JOY 13.3/8-200	7~8.5/8	1:03	200
	9~13.3/8	1:04	
JOY 20-200	7~8.5/8	1:03	
	9~20	1:04	
JOY 30-200	16~30	1:04	
JOY 36-200	18.5/8~36	1:04	

API Spider

Model	Applicable Diameter of Tubulars (in)	Rated Capacity (short tons)
8.5/8	2.3/8~8.5/8	100
9.5/8	9.5/8~10.3/4	150

TS Tubing Spider

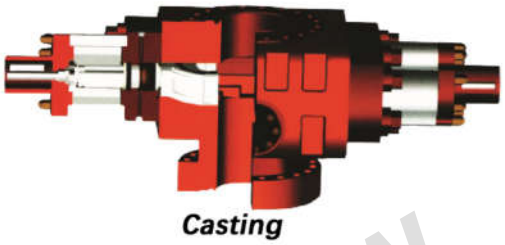
Model	Applicable Diameter of Tubulars (in)	Rated Capacity (short tons)
TS 3.1/2-100	1.05~3.1/2	100
TS 5.1/2-100	2.3/8~5.3/4	

Part 5: Well Control Equipment

Our BOP product series cover drilling operation BOP and workover operation BOP, they can work in the environment of low temperature, high temperature and high sulfur, and can fully support the well control requirements in drilling, unbalanced drilling, formation testing, downhole operation and snubbing operation etc. The bore of our BOP products is from 65mm ($2^{9}/_{16}$") to 762mm (30"), the pressure range is from 14Mpa (2000psi) to 140Mpa (20000psi). We have two types of BOP, Ram BOP and Annular BOP.

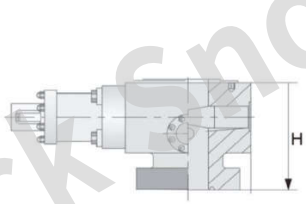
Ram BOP

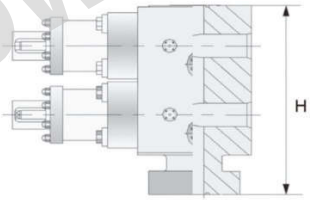
There are two types of ram BOP according to different manufacturing process, forging type and casting type. And according to the quantity of ram, there are single ram BOP, double rams BOP and triple rams BOP. Users can choose different connection types (flanged, studded), and select different types of rams (pipe ram, blind ram, shear ram, blind and shear ram), and variable bore ram.

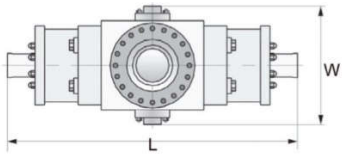


Casting

Forging







Specifications of ram BOP

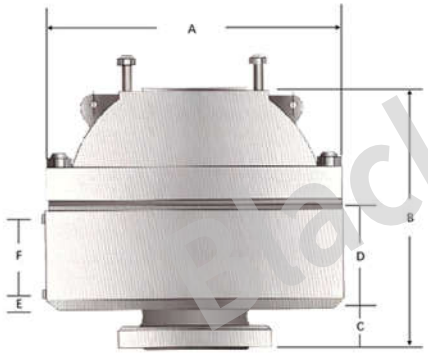
Model	Bore (in.)	Working pressure (Mpa/psi)	Open volume (L)	Close volume (L)	Locking type	Approx. weight (kg)	Dimensions (mm)			Connection	
							L	W	H	Top	Bottom
FZ18-35	7-1/16*	35/5000	2 x 1.5	2 x 1.7	Manual	477	1436	395	502	Flanged	Flanged
FZ18-35	7-1/16*	35/5000	2 x 1.5	2 x 1.7	Manual		1436	395	472	Studded	Flanged
FZ18-35	7-1/16*	35/5000	2 x 1.5	2 x 1.7	Manual		1436	395	422	Flanged	Studded
FZ18-35	7-1/16*	35/5000	2 x 1.5	2 x 1.7	Manual		1436	395	302	Studded	Studded
2FZ18-35	7-1/16*	35/5000	4 x 1.5	4 x 1.7	Manual	846	1436	395	726	Flanged	Flanged
2FZ18-35	7-1/16*	35/5000	4 x 1.5	4 x 1.7	Manual		1436	395	585	Studded	Flanged
3FZ18-35	7-1/16*	35/5000	6 x 1.5	6 x 1.7	Manual	1100	1436	395	912	Flanged	Flanged
3FZ18-35	7-1/16*	35/5000	6 x 1.5	6 x 1.7	Manual		1436	395	738	Studded	Studded
FZ18-70	7-1/16*	70/10000	2 x 3.5	2 x 3.5	Manual		2054	520	746	Flanged	Flanged
2FZ18-70	7-1/16*	70/10000	4 x 3.5	4 x 3.5	Manual	2180	2054	520	1081	Flanged	Flanged
SFZ23-21	9	21/3000	-	-	Manual		1336	470	527	Flanged	Flanged
SFZ23-21	9	21/3000	-	-	Manual		1336	470	426	Studded	Flanged
SFZ23-21	9	21/3000	-	-	Manual		1336	470	426	Flanged	Studded
2SFZ23-21	9	21/3000	-	-	Manual		1336	470	660	Studded	Flanged
FZ23-21	9	21/3000	2 x 2.5	2 x 2.8	Manual		1668	483	325	Studded	Studded
2FZ23-21	9	21/3000	4 x 2.5	4 x 2.8	Manual		1668	483	560	Studded	Studded
SFZ23-35	9	35/5000	-	-	Manual		1336	482	591	Flanged	Flanged
FZ23-35	9	35/5000	2 x 2.5	2 x 2.8	Manual		1668	489	591	Flanged	Flanged
FZ28-35	11	35/5000	2 x 5	2 x 5.7	Manual	2520	2120	766	660	Studded	Flanged
2FZ28-35	11	35/5000	4 x 5	4 x 5.7	Manual	4200	2120	766	1300	Flanged	Flanged
2FZ28-35	11	35/5000	4 x 5	4 x 5.7	Manual	4000	2120	766	1065	Studded	Flanged
FZ35-35	13-5/8	35/5000	2 x 7.2	2 x 8.6	Manual	3210	2394	931	715	Studded	Flanged
FZ35-35	13-5/8	35/5000	2 x 7.2	2 x 8.6	Manual	3515	2394	931	930	Flanged	Flanged
FZ35-35	13-5/8	35/5000	2 x 7.2	2 x 8.6	Manual	2910	2394	931	500	Studded	Studded
FZ35-35	13-5/8	35/5000	2 x 7.2	2 x 8.6	Manual	3215	2394	931	715	Flanged	Studded
2FZ35-35	13-5/8	35/5000	4 x 7.2	4 x 8.6	Manual	5780	2394	931	945	Studded	Studded
2FZ35-35	13-5/8	35/5000	4 x 7.2	4 x 8.6	Manual	6060	2394	931	1155	Flanged	Studded
2FZ35-35	13-5/8	35/5000	4 x 7.2	4 x 8.6	Manual	6065	2394	931	1160	Studded	Flanged
2FZ35-70A	13-5/8	70/10000	4 x 14.7	4 x 17.6	Manual	12015	2668	1205	1485	Studded	Flanged
FZ35-70B	13-5/8	70/10000	2 x 21.5	2 x 20.5	Manual	5670	3632	950	860	Studded	Flanged
FZ35-70B1	13-5/8	70/10000	2 x 21.5	2 x 20.5	Manual	5980	3632	950	860	Studded	Flanged
FZ53-21	20-3/4	21/3000	2 x 11.65	2 x 13.65	Manual	4995	3206	1180	850	Studded	Flanged
2FZ53-21	20-3/4	21/3000	4 x 11.65	4 x 13.65	Manual	9530	3206	1180	1290	Studded	Flanged
2FZ54-14	21-1/4	14/2000	4 x 11.5	4 x 13.5	Manual	8980	3206	1180	1150	Studded	Flanged

Note: the bore size marked with "*" can be manufactured with 186mm according to onsite requirements in order to meet 350 wellhead pipes hanging.

SFZ--manual ram BOP, FZ--single ram BOP, 2FZ--double rams BOP, 3FZ--triple rams BOP

Annular BOP

Annular BOP has two styles of packing element structure, spherical style and taper style. The spherical annular BOP consists of 5 main components including body, upper housing, piston, spherical packing element and dust-proof ring. The taper annular BOP consists of 7 main components including body, upper housing, wear-plate, piston, taper packing element, dust-proof ring and supporting cylinder. The simple and compact design guarantees easy maintenance and reliability. The design with minimum moving parts provides excellent repeatability in positive sealing and the well pressure also assists sealing.



Specifications of annular BOP

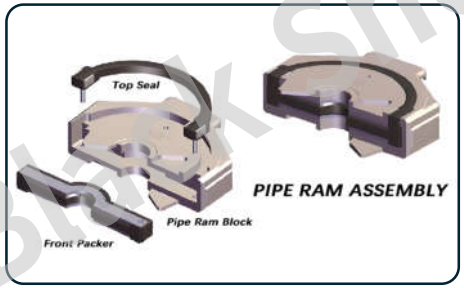
Model	Bore (in.)	Working pressure (Mpa/psi)	Open volume (L)	Close volume (L)	Approx. weight (kg)	Dimensions (mm)					
						A	B	C	D	E	F
FH18-21	7-1/16*	21/3000	21	15	1480	745	769	141	309	43	220
FH18-35	7-1/16*	35/5000	21	15	1500	745	797	169	309	43	220
FH18-35/70	7-1/16*	35/5000	21	15	1560	745	809	181	309	43	220
FH23-35	9	35/5000	43.5	35.5	3400	1016	942	200	380	72	262
FH28-21	11	21/3000	46	33	3200	1013	873	164	361	54	258
FH28-35	11	35/5000	76	60	4665	1146	1100	232	434	74	313
FH35-35	13-5/8	35/5000	96	72	6450	1271	1176	223	467	83	338
FH35-35/70	13-5/8	35/5000	96	72	6745	1271	1231	278	467	83	338
FHZ35-70/105	13-5/8	70/10000	116	117	15190	1780	1787	330	-	504	353
FHZ54-14	21-1/4	14/2000	157	83.5	7450	1512	1437	200	932	121	591

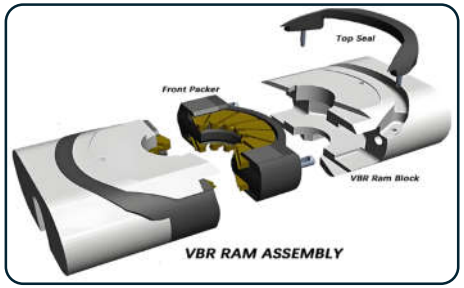
Note: the bore size marked with "*" can be manufactured with 186mm according to onsite requirements in order to meet 350 wellhead pipes hanging.

FH--spherical annular BOP; FHZ--taper annular BOP

BOP Ram Assemblies

BOP ram assembly include ram blocks, front packer and top seal. Our products are produced to be replaceable with OEM products, like Cameron style and like Shaffer style. The bore diameter is from 120mm to 760mm, and pressure range is from 14Mpa to 105Mpa. We provide blind ram (CSO), shear blind ram (SBR), pipe ram and variable bore ram (VBR). According to load-bearing requirements, slip ram can be provided as one type of pipe ram, and also anti-hydrogen sulfide ram can be provided for special working environments.





Ram types supported by BOP series

Ram Type / BOP series	Blind	Shear	2-3/8"	2-7/8"	3-1/2"	4"	4-1/2"	5"	5-1/2"	5-3/4"	6"	6-5/8"	7"	7-5/8"
18-35 C	✓		✓	✓	✓	✓	✓							
18-35 S	✓	✓	✓	✓	✓	✓	✓							
18-70 C	✓		✓	✓	✓	✓	✓							
18-70 S	✓	✓	✓	✓	✓	✓	✓							
28-35 C	✓	✓	✓	✓	✓		✓	✓	✓				✓	
28-35 S	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
28-70 C	✓	✓	✓	✓	✓		✓		✓				✓	
28-70 S	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
35-35 C	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓
35-35 S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
35-70 C	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓
35-70 S	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
54-14 C	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
54-14 S	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	
54-35 C	✓	✓						✓	✓					
54-35 S	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	

Ram types supported by BOP series

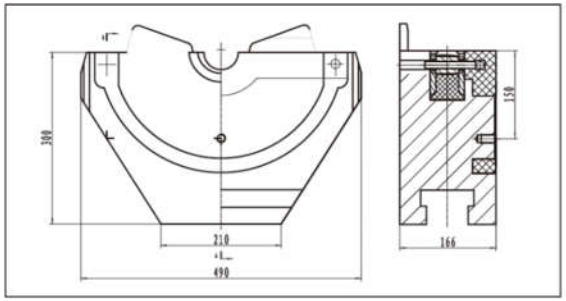
Ram Type / BOP series	9-5/8"	10-3/4"	11-3/4"	13-3/8"	14"	16"	2-3/8" ~ 2-7/8"	2-3/8" ~ 3-1/2"	2-7/8" ~ 3-1/2"	2-7/8" ~ 5"	3-1/2" ~ 4-1/2"	3-1/2" ~ 5-1/2"	5" ~ 5-1/2"	4-1/2" ~ 7"
18-35 C							✓		✓					
18-35 S							✓		✓					
18-70 C									✓					
18-70 S									✓					
28-35 C								✓						
28-35 S								✓		✓			✓	
28-70 C								✓						
28-70 S								✓			✓		✓	
35-35 C	✓							✓		✓		✓		✓
35-35 S	✓									✓		✓	✓	✓
35-70 C	✓	✓					✓			✓		✓		✓
35-70 S	✓	✓						✓		✓				
54-14 C	✓	✓	✓	✓	✓	✓								
54-14 S	✓	✓	✓	✓	✓	✓								✓
54-35 C	✓	✓			✓	✓								
54-35 S	✓	✓	✓	✓	✓	✓								✓

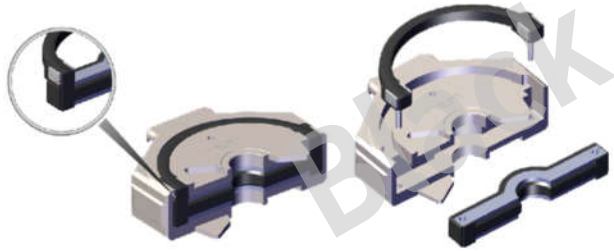
Note: C – like Cameron; S – like Shaffer

Below two ram assemblies are product number details for your references.

Ram BOP 35-70 series Ram Assembly (like Shaffer)

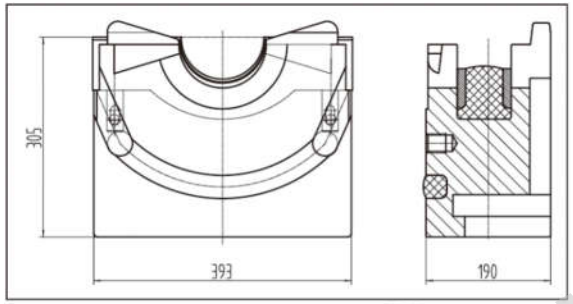
Ram Assembly	Top Seal	Block	Front Seal
CSO	BL11150037	BL11150040	BL11150034
2-3/8"	BL11150037	BL11150043	BL11150041
2-7/8"	BL11150037	BL11150046	BL11150044
3-1/2"	BL11150037	BL11150049	BL11150047
4-1/2"	BL11150037	BL11150052	BL11150050
5"	BL11150037	BL11150055	BL11150053
5-1/2"	BL11150037	BL11150058	BL11150056
6-1/2"	BL11150037	BL11150061	BL11150059
7"	BL11150037	BL11150064	BL11150062
5" ~ 5-1/2"	BL11150037	BL11150072	BL11150079





Ram BOP 35-70 series Ram Assembly (like Cameron)

Ram Assembly	Top Seal	Block	Front Seal
CSO	BL11089008	BL11089046	BL11089047
3-1/2"	BL11089008	BL11089042	BL11089043
5"	BL11089008	BL11089044	BL11089045
5-1/2"	BL11089008	BL11089060	BL11089059
7"	BL11089008	BL11089062	BL11089063
9-5/8"	BL11089008	BL11089067	BL11089068
5" ~ 5-1/2"	BL11089008	BL11089060	BL11089061



Annular BOP Packing Elements

There are two kinds of annular BOP packing elements, according to the structure they are spherical style and taper style respectively.

Annular BOP Packing Elements	
Spherical Style	Taper Style
FH18-35	FHZ18-70/105
FH23-35	FHZ28-70/105
FH28-35	FHZ35-35
FH28-35 shaffer	FHZ35-70
FH35-21	FHZ43-35
FH35-35	FHZ54-14
FH35-35 shaffer	
FH48-35	
FH53-21	
FH54-35	

FH18-35
Spherical

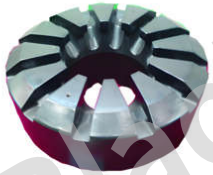
FH28-35
Spherical

FHZ35-70
Taper

FHZ28-70
Taper

FH53-21
Spherical

FH35-35
Spherical



FHZ35-70/105
Taper

FHZ54-14
Taper

BOP Spare Parts

We provide ram BOP spare parts and annular BOP spare parts for the replacement of various OEM BOP products.

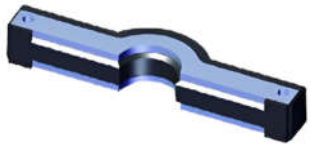
O-Ring

W-shaped Seal

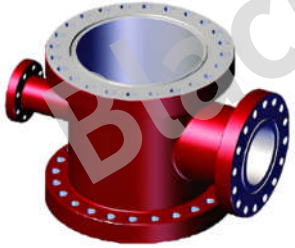
R Steel Ring Gasket

BX Steel Ring Gasket

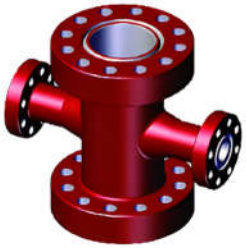
Top Seal



Front Packer

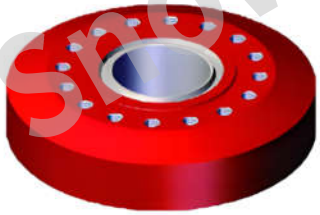


Drilling Spool



Drilling Spool

Front Packer



Transition Flange

Spacer Spool

Part 6: Well Directional Tools

Well Directional Tools are specialized tools used in the oil and gas industry to steer the wellbore and control the trajectory of the drilling operation. These tools allow operators to drill wells at angles or in directions that would not be possible with conventional vertical drilling methods.

Drill Stabilizer

The overall three-helix and four-helix stabilizers are divided into bottom hole type and drill string type. The wear-resistant materials (ie centralizers) on the working surface include cemented carbide pillars on the surface, diamond composites on the surface, and hard facing electrodes, Various forms such as low temperature brazing hard alloy.

Model, in	Working OD, mm	End OD of body, mm	ID, mm	Length, mm	Thread Type	
					Female buckle	Male buckle
6	152.2	121	51	1200	NC38	3-1/2 REG
6-1/4	158.7	121	51	1200	NC38	3-1/2 REG
6-1/2	165.1	121	51	1200	NC38	3-1/2 REG
7-1/2	190.5	159	57	1600	NC46	4-1/2 REG
7-7/8	200	159	57	1600	NC46	4-1/2 REG
8-3/8	212.7	159	71	1600 1800	NC46 NC50	4-1/2 REG
8-3/8	212.7	165	71			4-1/2 REG
8-1/2	215.2	165 178	71			4-1/2 REG
8-3/4	222.2		71			4-1/2 REG
9-1/2	241.3	178 197	71	1600	NC50	4-1/2 REG
9-5/8	344.5		71	1800	NC50	6-5/8 REG
9-7/8	250.8		71	1800	NC50	6-5/8 REG
12-1/4	311.1	203	76	1800	NC56	6-5/8 REG
12-1/4	311.1	209	76	1800	6-5/8 REG	6-5/8 REG
16	406	229 241.3	76	2000 2200	NC61	7-5/8 REG
17-1/2	444.5		76		NC61	7-5/8 REG
24	609.6		76		NC61	7-5/8 REG
26	660.4		76		NC61	7-5/8 REG
28	711.2		76		NC61	7-5/8 REG

Note: Drill stabilizer can be made according to customer's special requirement.

Drill Motor

Drill motor (or downhole motor, mud motor) is a kind of downhole dynamic drilling tool upon the power of drilling mud (or compressed gases), which is a kind of positive displacement motor (PDM). And it can be used in conjunction with cone bits, diamond bits and other special bits for drilling vertical well, directional well and horizontal well.

Model	OD		Bit OD		Connection		Lobe	Stage	Flow (gpm)	Speed (rpm)	Working Differential Pressure		Max. Differential Pressure		Output Torque		Stall Torque		Working Weight on Bit		Max. Weight on Bit		Power	
	mm	in	mm	in	Top Box	Bottom Box					Mpa	psi	Mpa	psi	Nm	lb-ft	Nm	lb-ft	kN	lb	kN	lb	kW	hp
5LZ38×7.0-4-360	38	1-1/2	43 ~ 60	1-7/8 ~ 2-3/8	1AMMT	1AMMT	5/6	4	12 ~ 24	228 ~ 457	3.2	466	4.52	655	81	60	114	84	2	440	4	880	4.8	6.6
5LZ45×7.0-4-360	45	1-3/4	51 ~ 76	2 ~ 3	1AMMT	1AMMT	5/6	4	16 ~ 32	204 ~ 408	3.2	466	4.52	655	121	90	171	127	3	660	6	1320	6.4	9
5LZ54×7.0-4-420	54	2-1/8	60 ~ 89	2-3/8 ~ 3-1/2	1-1/2REG	1-1/2REG	5/6	4	24 ~ 48	170 ~ 340	3.2	466	4.52	655	218	162	309	230	4	880	8	1760	10	14
5LZ57×7.0-3-600	57	2-1/4	63 ~ 89	2-1/2 ~ 3-1/2	1-1/2REG	1-1/2REG	5/6	3	40 ~ 80	180 ~ 360	2.4	350	3.39	495	256	190	362	270	4	880	8	1760	12	15
5LZ60×7.0-4-420	60	2-3/8	73 ~ 102	2-7/8 ~ 4	1-1/2REG	1-1/2REG	5/6	4	32 ~ 64	179 ~ 359	3.2	466	4.52	655	276	204	390	291	5	1100	10	2200	13	16
5LZ73×7.0-3-600	73	2-7/8	89 ~ 121	3-1/2 ~ 4-3/4	2-3/8REG	2-3/8REG	5/6	3	48 ~ 96	126 ~ 253	2.4	350	3.39	495	440	325	621	463	12	2640	20	4400	14	18
7LZ73×7.0-4-480	73	2-7/8	89 ~ 121	3-1/2 ~ 4-3/4	2-3/8REG	2-3/8REG	7/8	4	63 ~ 111	185 ~ 324	3.2	466	4.52	655	534	394	754	562	12	2640	20	4400	22	28
7LZ73×7.0-5-600	73	2-7/8	89 ~ 121	3-1/2 ~ 4-3/4	2-3/8REG	2-3/8REG	7/8	5	63 ~ 126	148 ~ 260	4	585	5.65	824	834	615	1178	878	12	2640	20	4400	28	36
5LZ79×7.0-5-600	79	3-1/8	95 ~ 121	3-3/4 ~ 4-3/4	2-3/8REG	2-3/8REG	5/6	5	63 ~ 126	140 ~ 246	4	585	5.65	824	881	650	1244	927	12	2640	20	4400	28	36
5LZ89×7.0-3-600	89	3-1/2	108 ~ 121	4-1/4 ~ 4-3/4	2-7/8REG	2-7/8REG	5/6	3	95 ~ 143	157 ~ 235	2.4	350	3.39	495	709	523	1002	738	22	4840	35	7700	22	28
7LZ89×7.0-4-640	89	3-1/2	108 ~ 121	4-1/4 ~ 4-3/4	2-7/8REG	2-7/8REG	7/8	4	95 ~ 143	124 ~ 187	3.2	466	4.52	655	1190	878	1681	1238	22	4840	35	7700	29	37
7LZ89×7.0-5-640	89	3-1/2	108 ~ 121	4-1/4 ~ 4-3/4	2-7/8REG	2-7/8REG	7/8	5	95 ~ 143	124 ~ 187	4	585	5.65	824	1487	1090	2100	1547	22	4840	35	7700	36	46
7LZ95×7.0-5-600	95	3-3/4	118 ~ 149	4-5/8 ~ 5-7/8	2-7/8REG	2-7/8REG	7/8	5	95 ~ 190	114 ~ 228	4	585	5.65	824	1625	1198	2295	1691	30	6600	55	12100	39	50
7LZ102×7.0-4-520	102	4	118 ~ 149	4-5/8 ~ 5-7/8	2-7/8REG	2-7/8REG	7/8	4	95 ~ 190	128 ~ 256	3.2	466	4.52	655	1159	854	1636	1205	30	6600	55	12100	38	49
7LZ102×7.0-4-720	102	4	118 ~ 149	4-5/8 ~ 5-7/8	2-7/8REG	2-7/8REG	7/8	4	111 ~ 238	108 ~ 231	3.2	466	4.52	655	1604	1182	2266	1669	30	6600	55	12100	48	62
5LZ120×7.0-4-720	120	4-3/4	149 ~ 200	5-7/8 ~ 7-7/8	3-1/2REG	3-1/2REG	5/6	4	143 ~ 285	118 ~ 236	3.2	466	4.52	655	1890	1400	2669	1977	49	10803	100	22000	58	75
7LZ127×7.0-5-820	127	5	149 ~ 200	5-7/8 ~ 7-7/8	3-1/2REG	3-1/2REG	7/8	5	174 ~ 348	107 ~ 214	4	585	5.65	824	3179	2355	4491	3327	49	10803	100	22000	72	93
7LZ146×7.0-5-800	146	5-3/4	172 ~ 222	6-3/4 ~ 8-3/4	4-1/2REG	4-1/2REG	7/8	5	206 ~ 412	94 ~ 188	4	585	5.65	824	4249	3148	6001	4446	49	10803	100	22000	104	134
7LZ165×7.0-5-840	165	6-1/2	213 ~ 251	8-3/8 ~ 9-7/8	4-1/2REG	4-1/2REG	7/8	5	254 ~ 508	86 ~ 172	4	585	5.65	824	5745	4256	8115	6011	80	17600	160	35200	128	165
5LZ172×7.0-5-840	172	6-3/4	213 ~ 251	8-3/8 ~ 9-7/8	4-1/2REG	4-1/2REG	5/6	5	254 ~ 508	86 ~ 172	4	585	5.65	824	5764	4270	8141	6030	100	22000	170	37400	128	165
7LZ172×7.0-5-840	172	6-3/4	213 ~ 251	8-3/8 ~ 9-7/8	4-1/2REG	4-1/2REG	7/8	5	317 ~ 586	90 ~ 167	4	585	5.65	824	6833	5061	9651	7149	100	22000	170	37400	148	190
7LZ172×7.0-5-960	172	6-3/4	213 ~ 251	8-3/8 ~ 9-7/8	4-1/2REG	4-1/2REG	7/8	5	317 ~ 586	80 ~ 147	4	585	5.65	824	7809	5784	11029	8170	100	22000	170	37400	148	190
7LZ178×7.0-6-840	178	7	213 ~ 251	8-3/8 ~ 9-7/8	4-1/2REG	4-1/2REG	7/8	6	317 ~ 586	90 ~ 167	4.8	700	6.78	988	8200	6074	11582	8580	100	22000	170	37400	177	227
5LZ203×7.0-5-840	203	8	251 ~ 311	9-7/8 ~ 12-1/2	6-5/8REG	6-5/8REG	5/6	5	349 ~ 634	85 ~ 156	4	585	5.65	824	7948	5887	11226	8315	150	33000	200	44000	160	205
7LZ203×7.0-5-1000	203	8	251 ~ 311	9-7/8 ~ 12-1/2	6-5/8REG	6-5/8REG	7/8	5	349 ~ 634	63 ~ 115	4	585	5.65	824	10719	7940	15141	11215	150	33000	200	44000	160	205
7LZ216×7.0-5-1020	216	8-1/2	251 ~ 311	9-7/8 ~ 12-1/2	6-5/8REG	6-5/8REG	7/8	5	380 ~ 760	58 ~ 117	4	585	5.65	824	12659	9377	17880	13244	220	48400	330	79200	192	246

Cambered Surface Whipstock

The cambered whipstock has a whip face with circular arc surface which has been super hardened. The whip face and the casing window milling cone have a high degree matching. The drilled wellbore is regular, smooth and accurate. During the drilling process, the weight on bit is easy to control, which reduces stuck and bit bounce, and reduces the risk of downhole accidents.

Model	Casing OD, in	Whipstock OD, mm	Whipstock Length, mm	Window length(mm)	Thread Type	Well Deviation Range °	Well Temperature Range ℃	Setting Method
DXQ102/H	5" (φ127)	φ102×3210	3210	1600~1800	2-7/8REG	≤40°	≤200℃	Directly pressure
DXQ102F/H		Φ102×3720	3720					
DXQ102FS/H		Φ102×4200	4200					
DXQ114/H	5-1/2" (φ139.7)	φ114×3450	3450	1800~2000	2-7/8REG or NC31★			
DXQ114F/H		φ114×3960	3960					
DXQ114FS/H		φ114×4890	4890					
DXQ138/H	6-5/8" (φ168.28)	φ138×3940	3940	2000~2200	3-1/2REG or NC38★			
DXQ138F/H		φ138×4450	4450					
DXQ150/H	7" (φ177.8)	φ150×4000	4000	2400~2500	3-1/2REG or NC38★			
DXQ150F		φ150×4200	4200					
DXQ160	7-5/8" (φ193.68)	φ160×4200	4200	2500~2700	3-1/2REG or NC38★			
DXQ160F		φ160×4400	4400					
DXQ210	9-5/8" (φ244.5)	φ210×4600	4600	2700~3000	4-1/2REG or NC50★			
DXQ210F		φ210×4800	4800					
DXQ300	13-3/8" (φ339.7)	Φ300×5600	5600	3800~4300	4-1/2REG or NC50★			
DXQ300F		Φ300×5800	5800					

Note: the one marked with "★" is the recommended connection thread, it is the default specification if there is no expressly requested. We recommend customers to provide detailed specifications, such as casing OD, thickness, we will manufacture according to your actual requirements.

Casing Scraper

Casing Scraper is ideal for the removal of dirt which may be left over the inside walls of casing, such as solid cement, hard wax, various salt crystals or deposits, perforation burrs and iron oxide residues resulted from rusting etc. At present in the large oil well casing scraper is necessary tool for scrapping in the internal wall of casing.

Model	Mandrel O.D. (mm)	Max. O.D of Blade Extension (mm)	Min O.D of Blade Extension (mm)	Thread Type	Total Length (mm)
GX-T114	90	107	94	NC26	880
GX-T127	100	120	104	NC26	880
GX-T140	110	134	115	NC31	1000
GX-T178	136	170	146	3-1/2REG	1150
GX-T245	200	238	210	4-1/2REG	1340
GX-T340	292	338	292	6-5/8REG	1500

Ultra Short Radius

Ultra Short Radius (USR) sidetracking technology can help to reach the untapped oil and gas reserves. Through using USR technology reserves can be developed in a cost-effective manner. The key deliverables are the increased production and the improved ultimate recovery. The ultra short radius tools combine with our sidetracking tools can fully meet the design requirements. We have a professional sidetracking technical team to provide sidetracking services.

Part 7: Cementing Tools

Float Collars and Float Shoes

Basically, floating equipment is comprised of float collars and float shoes:

Float shoe contains a backpressure valve which prevents fluids from entering the casing while the pipe is lowered into the hole and prevents cement from flowing back into the casing after placement, while enabling circulation down through the casing.

Float collars are placed one to three joints above the guide shoe or float shoe. They provide a seat for the cement plugs, the bottom plug pumped ahead of the cement and the top plug behind the full volume of slurry. Once seated, the top plug shuts off fluid flow and prevents over-displacement of the cement. The space between the float shoe and the float collar provides a containment area to entrap the likely-contaminated fluids from the wiping action of the top cementing plug, securing the contaminated fluid away from the shoe where a strong cement bond is of primary importance. Float collars include a backpressure valve and serve basically the same function as the float shoe.

Type: Stab-in Type, Non-Rotating type, Standard Type

Connected Casing O.D.: 4-1/2 ~ 20 in (114 ~ 508 mm)

Thread type: BTC, LTC, STC and premium thread according to customer requirements

Steel grade: J55, K55, N80, L80, P110

Casing Centralizers

Casing centralizer is a device used to place the casing at the center of the hole so as to improve the efficiency of the cementing. It is an important device because if the casing centralizer touches the formation at any part of the hole, then cement slurry does not pass through the area of the contact resulting in a poor cementing job.

Type: Solid Rigid Type (straight blade, spiral blade and roller), and Spring Type

Casing Size O.D.: 4-1/2 ~ 20 in (114 ~ 508 mm)

Hole Size O.D.: 6 ~ 26 in (165 ~ 680 mm)

Standard: 10D

Rigid Centralizers

Both straight blade and spiral blade are available, and designed for use in highly deviated and horizontal well. Spiral blade increases annular turbulence, with its stream-lined shape, it enables casing to run easily in wellbore.

Roller centralizers are mainly used for big high-deviated wells and horizontal wells, for casings being centered. It can make sliding friction into rolling friction between casings and borehole wall, and can effectively reduce the friction under running casing. In addition, levorotatory spiral groove has cleaning effect, and can change state of casing blocked in the process of construction, so that ensure casing running is smooth. Roller centralizer can also remove wellbore cake, and improve mud replace efficiency etc. Roller centralizer is an indispensable cementing accessory tool in the completion of big high-deviated wells and horizontal wells.

Spring Centralizers

The spring centralizers are manufactured by spring steel according to API 10D. Every attachment is pressed into shape by moulding instead of welding and pin. Three-section structure is easy for transport. They are manufactured according to API 10D.

Part 8: Refurnished Used Heavy Trucks

There are multiple types of heavy truck according to the usage. We will introduce the popular types of refurnished used heavy truck which are sold most in our international customers, they are dump truck, tractor truck, tanker truck and flatbed truck. If you need other types of truck, we can also help to look for in China market.

Our used heavy trucks have been refurnished with the cab, the vulnerable parts, tires and the appearances and there are no vehicular components have been replaced. The trucks axle configurations mainly cover 6x4 and 8x4, the emission standard follows from China 2 to China 5 which are similar to Euro 2 to Euro 5. Due to the characteristics of the used truck market, the brands and models are more complex, and the circulation of goods is large, we recommend to look for products based on basic parameters such as drive mode, load capacity and emission standards etc. This will help us to find the right product with competitive price for you.

In the product catalog, we will list some sample products sold in recent half year.

Dump Truck

Our used dump trucks are HOWO branded, the drive mode covers 6x4 and 8x4, load capacity is from 12 tons to 15 tons, the max torque is from 1500 Nm to 2100 Nm, fuel tank is 300L or 400L, diesel fuel.

Comparation	HOWO 7 380 6X4 dump	HOWO 7 375 6X4 dump
Basic Information		
Drive type	6X4	6X4
Wheelbase	3825+1350mm	4125+1400mm
engine	Sinotruk D10.38-50	Sinotruk WD615.96E
Gearbox	Sinotruk HW19710	Sinotruk HW19710
Body length	7.575 m	8.685m
Width	2.496 m	2.496 m
Ride height	3.125 m	3.45 m
Rated load	12.4 tons	12.4 tons
Engine parameters		
Engine Model	Sinotruk D10.38-50	Sinotruk WD615.96E
Engine Brand	Sinotruk	Sinotruk
Number of cylinders	6 cylinders	6 cylinders
Fuel Type	diesel fuel	diesel fuel
Displacement	9.726L	9.726L
Emission standards	National Five	National Three
Maximum horsepower	380 hp	375 hp
Maximum output power	276kW	276kW
Maximum Torque	1560N·m	1500N·m
Maximum torque speed	1200-1500rpm	1100-1600rpm
Rated speed	2000rpm	2200rpm
Cargo box parameters		
Length of cargo box	5.8 m	5.8 m
Cargo box width	2.3 m	2.3 m
Cargo box height	1.5 m	1 m
Gearbox parameters		
Gearbox Model	Sinotruk HW19710	Sinotruk HW19710
Gearbox brand	Sinotruk	Sinotruk
Forward gear	10 levels	10 levels
Reverse gear number	2	2
Tank		
Fuel tank capacity	400L	300L
Chassis parameters		
Front axle description	HF9	HF9
Front axle allowable load	9000kg	9000kg
Rear Axle Description	AC16	AC16
Rear axle allowable load	16000kg	16000kg
Tire		
Number of tires	10	10

Comparation	HOWO 7 380 8X4 dump	HOWO 7 440 8X4 dump
Basic Information		
Drive type	8X4	8X4
Wheelbase	1800+4600+1350mm	1950+4600+1350mm
engine	Sinotruk D10.38-50	Sinotruk MC11.44-50
Gearbox	Sinotruk HW19712	Sinotruk HW12
Body length	11.345 m	11.295 m
Body width	2.55 m	2.55 m
Ride height	3.8 m	3.45 m
Rated load	15.37 tons	15.37 tons
Engine parameters		
Engine Model	Sinotruk D10.38-50	Sinotruk MC11.44-50
Engine Brand	Sinotruk	Sinotruk
Number of cylinders	6 cylinders	6 cylinders
Fuel Type	diesel fuel	diesel fuel
Displacement	9.726L	10.518L
Emission standards	National Five	National Five
Maximum horsepower	380 hp	440 hp
Maximum output power	274kW	324kW
Maximum Torque	1560N·m	2100N·m
Maximum torque speed	1200-1500rpm	1000-1400rpm
Rated speed	2000rpm	1900rpm
Cargo box parameters		
Length of cargo box	8.5 m	8.2 m
Cargo box width	2.35 m	2.35 m
Cargo box height	1.5 m	1.5 m
Gearbox parameters		
Gearbox Model	Sinotruk HW19712	Sinotruk HW12
Gearbox brand	Sinotruk	Sinotruk
Forward gear	12 levels	12 levels
Reverse gear number	2	2
Tank		
Fuel tank capacity	400L	400L
Chassis parameters		
Front axle description	HF9	HF9
Front axle allowable load	6500/7000kg	6500/7000kg
Rear Axle Description	AC16	AC16
Rear axle allowable load	17500 (double shafts) kg	17500(two-axle group)kg
Tire		
Number of tires	12	12

Tractor Truck

Our used tractor trucks are also HOWO branded, the drive mode covers 4X2, 6X2 and 6x4, total traction mass is from 30 tons to 40 tons, the max torque is about from 1100 Nm to 1800 Nm, fuel tank is 300L or 400L, diesel fuel.






Comparation	HOWO 7 420HP 4X2 tractor	HOWO 7 375HP 6X2 tractor	HOWO 7 380HP 6X4 tractor
Basic Information			
Drive type	4X2	6X2	6X4
engine	Sinotruk D12.42-30	Sinotruk WD615.96	Sinotruk D10.38-50
Gearbox	Sinotruk HW20716AL	Sinotruk HW20716A	Sinotruk HW19712
Wheelbase	3500mm	3225+1365mm	3225+1350mm
Body length	6.11 m	6.91 m	6.8 m
Body width	2.496 m	2.496 m	2.496 m
Ride height	2.958 m	2.958 m	3.835m
Total traction mass	34.7 tons	37.3 tons	40 tons
Engine parameters			
Engine Model	Sinotruk D12.42-30	Sinotruk WD615.96	Sinotruk D10.38-50
Engine Brand	Sinotruk	Sinotruk	Sinotruk
Number of cylinders	6 cylinders	6 cylinders	6 cylinders
Fuel Type	diesel fuel	diesel fuel	diesel fuel
Cylinder arrangement	In-line	In-line	In-line
Displacement	11.596L	9.726L	9.726L
Emission standards	National Three	National Three	National Five
Maximum horsepower	420 hp	375 hp	380 hp
Maximum output power	309kW	276kW	276kW
Maximum Torque	1820N·m	1500N·m	1560N·m
Maximum torque speed	1100-1500rpm	1100-1600rpm	1200-1500rpm
Rated speed	2000rpm	2200rpm	2000rpm
Gearbox parameters			
Gearbox Model	Sinotruk HW20716AL	Sinotruk HW20716A	Sinotruk HW19712
Gearbox brand	Sinotruk	Sinotruk	Sinotruk
Gear shifting method	AMT	AMT	Manual
Forward gear	16 levels	16 levels	12 gears
Reverse gear number	2	4	2
tank			
Fuel tank capacity	400L	400L	400L
Chassis parameters			
Front axle description			HR9
Rear Axle Description	ST13		AC16
Front axle allowable load			18000 (double shafts) kg
Rear axle allowable load	13000kg	11500/7000kg	7000kg
tire			
Number of tires	6	8	10

Tank Truck

Our used tank trucks are also HOWO branded, generally tank trucks will be used as special truck transport. The usage is different for different industry customers. The listed tank trucks are for cleaning, the tank is used for containing water.






	HOWO T5G 310HP 6X4 cleaning truck
Basic Information	
Drive type:	6X4
Wheelbase:	4100+1350mm
type:	Cleaning car
Front track	2015mm
Rear track	1830/1830mm
Engine parameters	
Engine Model:	Sinotruk MC07.31-50
Number of cylinders:	6 cylinders
Displacement:	6.87L
Maximum output power:	228kW
Maximum horsepower:	310 hp
Emission standards:	National Five
Fuel Type:	diesel fuel
Upload parameters	
Tank volume:	13.01m3
Other special instructions:	Tank cubage 16m3
Chassis parameters	
Chassis Brand:	Sinotruk HOWO
Chassis series:	HOWO T5G
Chassis Model:	ZZ1257N464GE1
Tire	
Number of tires:	10

Truck Chassis

Our used truck chassis are also HOWO branded, truck chassis can be easily transformed into flatbed truck and stake truck etc. to carry containers or bulk goods. According to customers' actual requirements, through further upgrading, it can meet different working scenarios flexibly, it has wide usage and good flexibility. In order to meet different industry market, truck type modification based on truck chassis will be a good choice for meeting operation needs.