

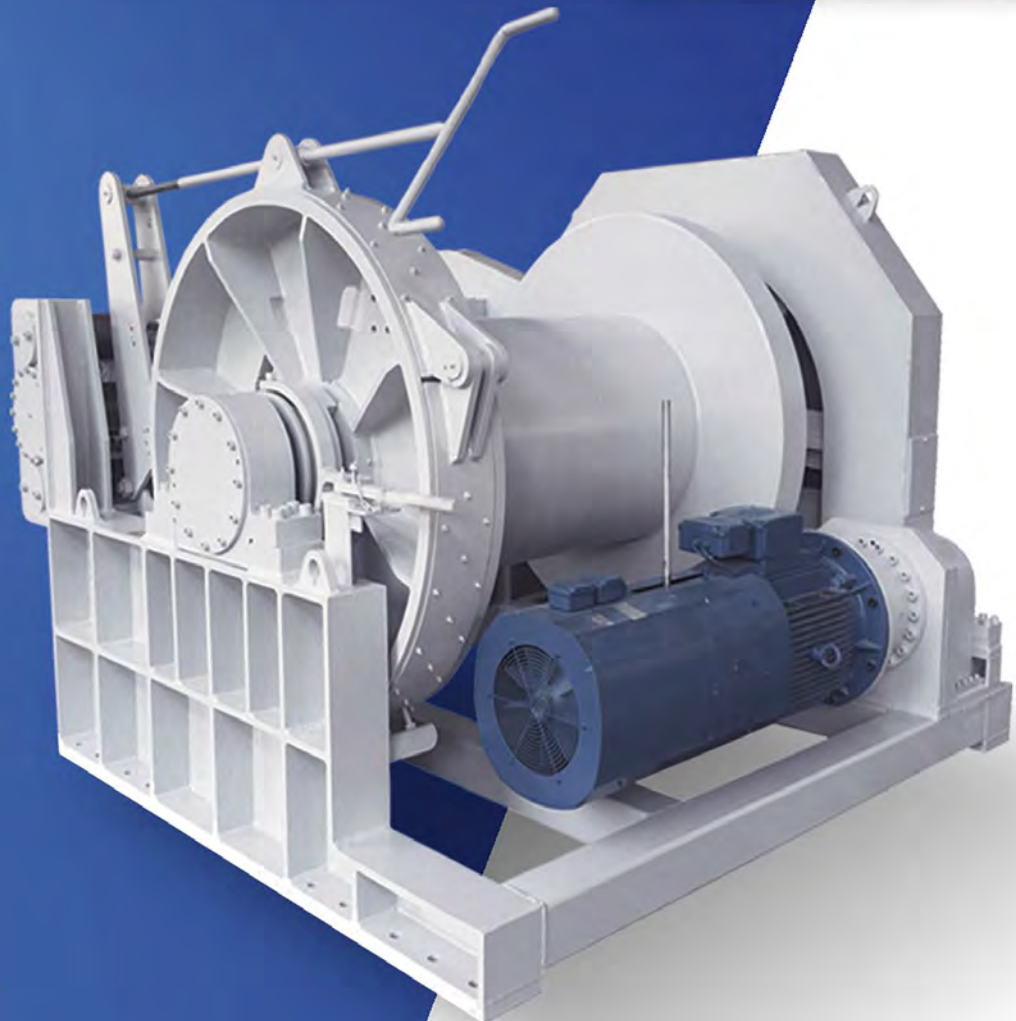


High quality
Reliable Compact

Hydraulic Winch

Electric Winch

Winch





The company was founded in October 1996, covers a total area of 133,333 sqm, with building area of 100,000 sqm. The register capital is USD 15,000,000. The company has 400 employees now.

The company is specialize in manufacturing hydraulic pumps, hydraulic motors, winches, planetary reducers, slewing drives and whole set of hydraulic systems. These patented products are widely used in construction machinery, petroleum, coal mining, geological prospecting, marine, metallurgical, light industry, agriculture, and environmental protection. Our products are exported to Southeast Asia, Middle East, USA, UK, Italy, the Netherlands, Australia, Brazil, India, Russia, Austria and so on.

Products & Applications





info@zeiusa.com www.zeiusa.com ZEIUSA LLC

Products & Applications





Products & Applications



Steel strand which is applied to the construction project of the world's first cross suspension bridge-Chanak Kale Bridge in Turkey





Products & Applications

Provide transmission drivers hydraulic power packs and electrical control facilities for the first "multi-crane slewing platform" in the world



Provide a manned winch for the fire ladder truck
Provide wave compensation manned winches for medical vessels such as the "Peace Ark"





Products & Applications

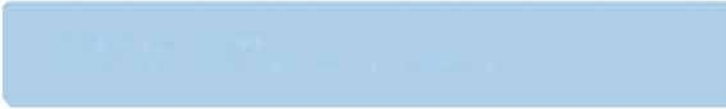




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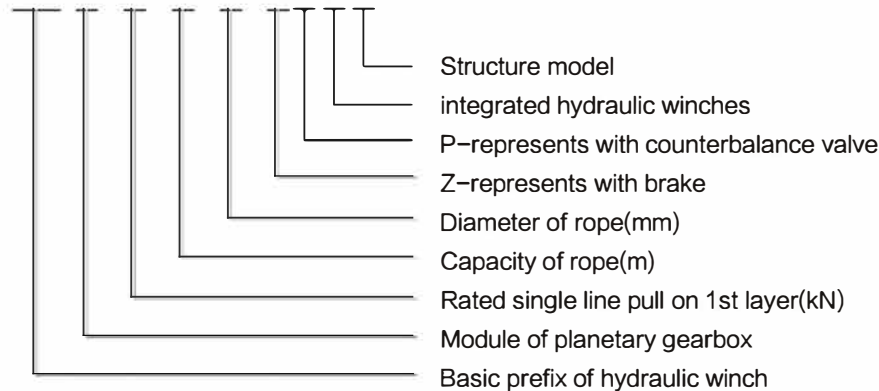
● IYJ-N Series Integrated Hydraulic Winches

1. Brief Introduction

IYJ-N series integrated hydraulic winches is independently developed by our company, has applied for a number of inventions and utility model patents, and obtained the "Made in Zhejiang" brand certification. And they are mainly consist of axial piston hydraulic motor, Z type hydraulic multi-disc brake and C type or KC type planetary gearbox, clutch, drum, support shaft, frame. hydraulic motor can choose different distributor according to the working conditions, such as counterbalance valve, overload valve, shuttle valve, speed control directional valve and other functions' valve. This series winches featured compact and elegant figure, small size and lightweight, and a high efficiency and power, low noise and good operating performance. Therefore, the series hydraulic winches have been widely used in mobile crane, vehicle crane, aerial platform, tracked vehicle and so on. IYJ series integrated hydraulic winches have been well sold in China company such as SANY, and also have been exported to the USA, Japan, Australia, Russia, Austria, Netherlands, Indonesia, Korea and other areas in the world.

2. Model Options

IYJ * - * - * - * - Z P N *



3. Options Example

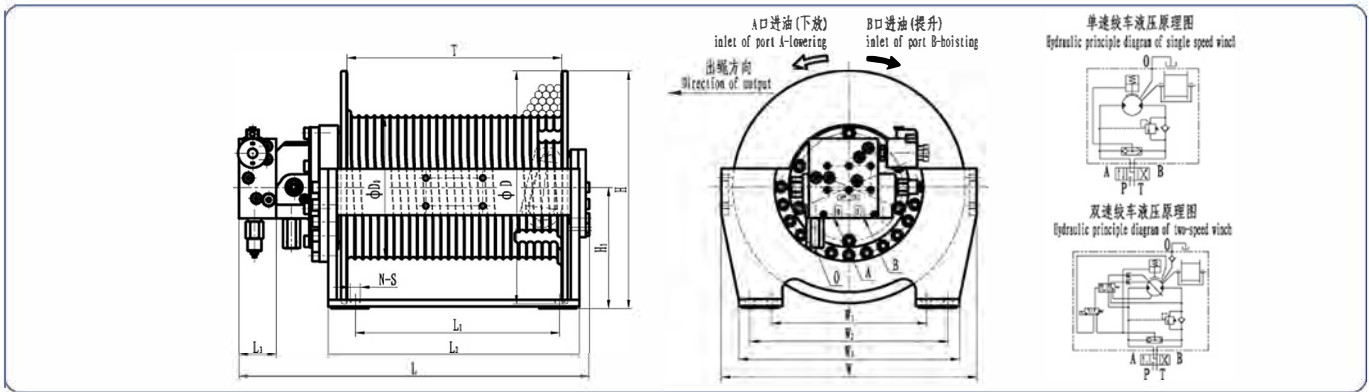
IYJ22-20-55-10-ZPND represents that the hydraulic winch adopts two levels planetary gearbox, and the modules of the gearbox are 2 and 2 respectively, the rated single pull on 1st layer is 20KN, drum capacity is 55m, rope diameter is 10mm, Single speed integrated hydraulic winch with brake and balance valve.

4. Parameter Description

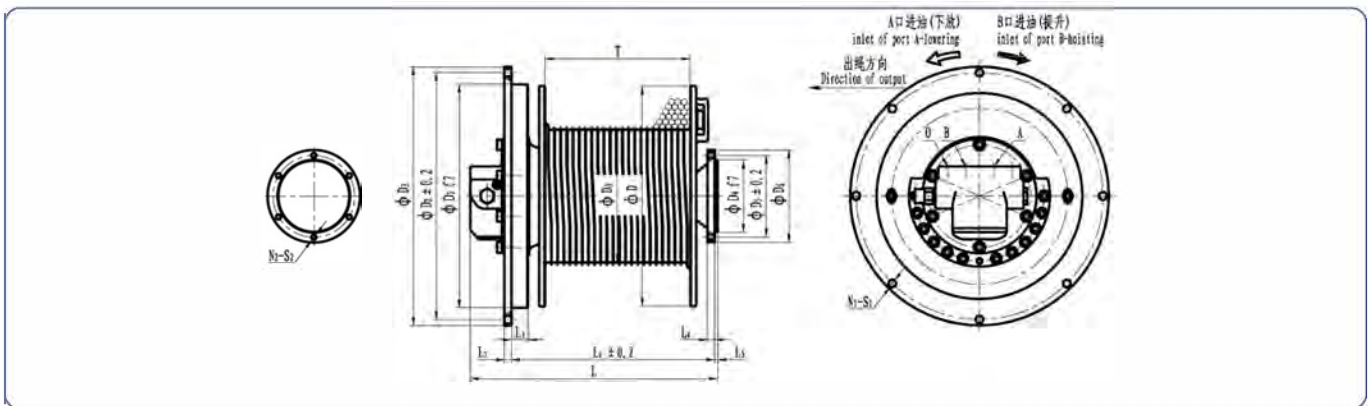
- a. Total displacement represents the capacity of oil supply per revolution.
- b. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 85%–94%.
- c. Drum capacity is theoretical drum capacity. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
- d. This winch can't be used to carry people.



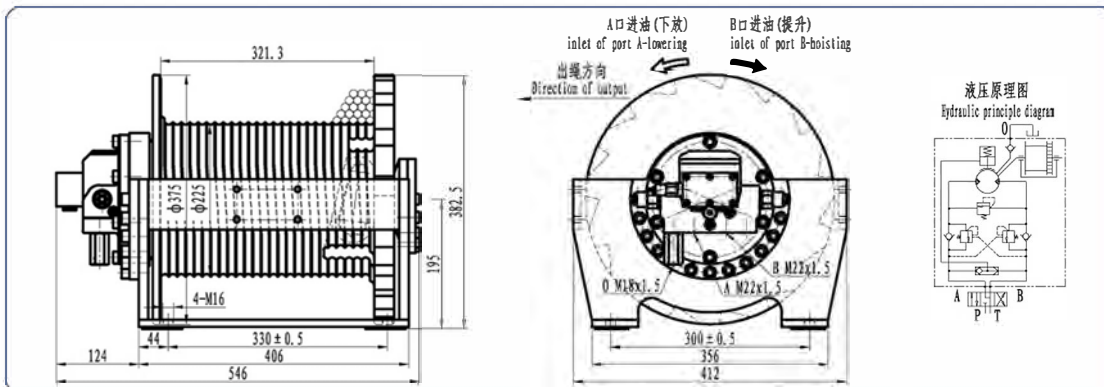
IYJ-N



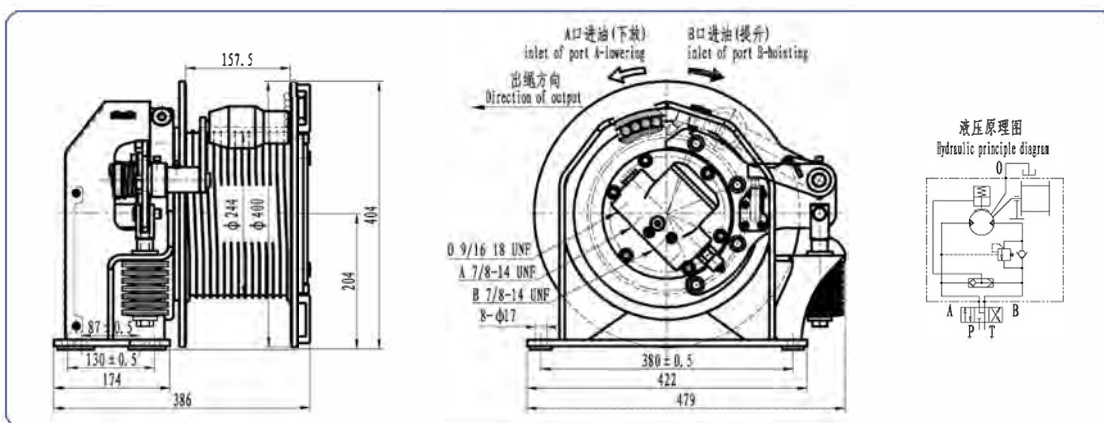
系列代号 Serial code	第一层拉力 The 1st Layer Pull		第一层绳速 The 1st Layer Rope Speed		总排量 Displacement		工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
	重载 Heavy load (kN)	轻载 Slight load (kN)	重载 Heavy load (m/min)	轻载 Slight load (m/min)	重载 Heavy load (ml/r)	轻载 Slight load (ml/r)							Do	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A, B	O
IYJ11-ND	3~12	-	10~50	-	337~515	-	10~30	10~42	5~10	4	55	19.81	165	230	144	160	212	0	301	-	192	230	250	120	235	4	Φ11	M22x1.5	M18x1.5
IYJ22-NA	10~20	-	10~40	-	810	-	10~25	6~30	10	5	75	45	185	305	218	200	289	0	337	-	260	300	315	160	313	4	M16	G3/4"	G1/2"
IYJ22-NB	10~20	3~8	8~25	20~60	810	405	10~25	6~30	8~11	3	28	45	184	279	168	160	245	138	383	-	230	270	295	150	289	4	M16	G1/2"	G3/8"
IYJ22-ND	10~25	-	10~40	-	480~763	-	16~25	9~57	8~12	5	55	21.86	172	279	173	178	261	0	357	-	200	249	310	146	286	4	Φ14	M22x1.5	M18x1.5
IYJ2.52.5-NA	25~40	-	8~36	-	900~1429	-	16~26	25~60	12~13	4	72	40.93	210	340	295	260	380	0	476	-	260	320	376	180	350	4	Φ17	M22x1.5	M18x1.5
IYJ2.52.5-NB	25~40	5~15	8~36	20~60	900~1429	450~929	16~26	25~60	12	5	122	40.93	225	375	347	330	406	60	566	-	300	356	412	195	383	4	M16	M22x1.5	M18x1.5
IYJ2.52.5-NC	15~30	-	10~45	-	844~1133	-	15~25	25~60	12	5	122	32.45	225	375	284	230	342	0	442	-	300	356	412	195	383	4	M16	M22x1.5	M18x1.5
IYJ2.52.5-ND	15~30	-	10~45	-	844~1133	-	15~25	25~60	12	5	122	32.45	225	375	347	330	406	0	506	-	300	356	412	195	383	4	M16	M22x1.5	M18x1.5
IYJ2.52.5-NE	15~25	-	10~45	-	844~1133	-	15~25	25~60	10	4	65	32.45	225	350	246	200	300	0	404	-	260	320	350	183	358	4	M16	M22x1.5	M18x1.5
IYJ2.52.5-NG	30~45	10~20	11~43	20~76	1817~2124	1089~1162	18~25	30~90	12	4	122	40.93	225	375	347	330	406	178	603	-	300	356	412	195	383	4	M16	M22x1.5	M18x1.5
IYJ33-NB	40~60	10~20	15~45	30~90	2177~2438	1064~1550	20~26	45~124	14	5	124	27.93	256	438	382	375	485	0	633	-	350	420	476	230	449	4	M24	G3/4"	G1/2"
IYJ33-ND	40~60	-	12~46	-	2618~2933	-	18~26	45~124	16	4	120	33.6	320	510	418	360	519	0	678	250	410	458	558	267	522	8	Φ26	G3/4"	G1/2"



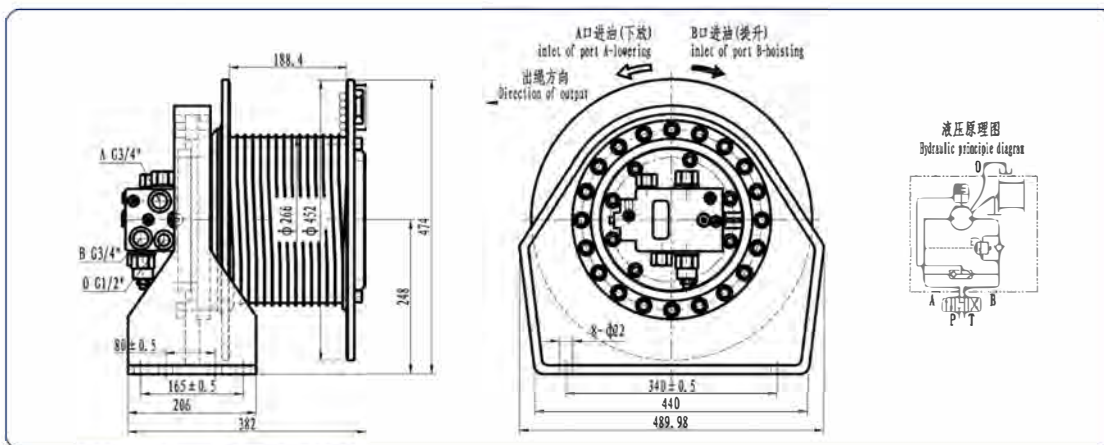
系列代号 Serial code	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																				
	拉力 Pull (kN)	绳速 Rope speed (m/min)								Do	D	T	L1	L2	L3	L4	L5	L	D1	D2	D3	D4	D5	D6	N1	S1	N2	S2	A, B	O
IYJ11-NF	5~12	3~12	435~602	8~24	10~42	8	4	43	19.81	165	246	152	216	10	20	9	7	313	196	210	224	80	96	110	9	M8	9	M8	M22x1.5	M18x1.5
IYJ22-NF	10~25	10~40	480~763	15~25	9~57	10	6	83	21.86	172	325	196	273	10	30	15	10	374	330	355	375	77	95	110	12	Φ11	12	M8	M22x1.5	M18x1.5
IYJ2.52.5-NF	15~25	12~45	844~1133	15~25	20~60	10	6	126	32.45	225	375	247	346	12	28	12	5	421	380	420	440	122	138	156	8	Φ13	6	M10	M22x1.5	M18x1.5
IYJ33-NF	40~60	12~46	2618~2933	18~26	18~26	14	5	124	33.6	320	500	330	431	20	10	18	18	580	270	300	325	182	206	233	12	Φ17	11	Φ15	G3/4"	G1/2"



系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer speed (m/min)	总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio
IYJ2.52.5-NH	25 ~ 40	8 ~ 36	900 ~ 1429	16 ~ 26	25 ~ 60	12	5	115	40.93

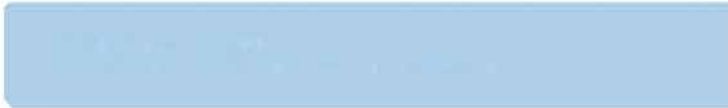


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer speed (m/min)	总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio
IYJ22.75-ND	15 ~ 25	20 ~ 52	962.5	16 ~ 26	27 ~ 70	10	6	80	32.63



系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer speed (m/min)	总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio
IYJ23-ND	25 ~ 50	20 ~ 50	1435 ~ 1810	20 ~ 30	36 ~ 90	14	6	80	20.8

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● IYJ-L Series Hydraulic Winch with Free Fall Function

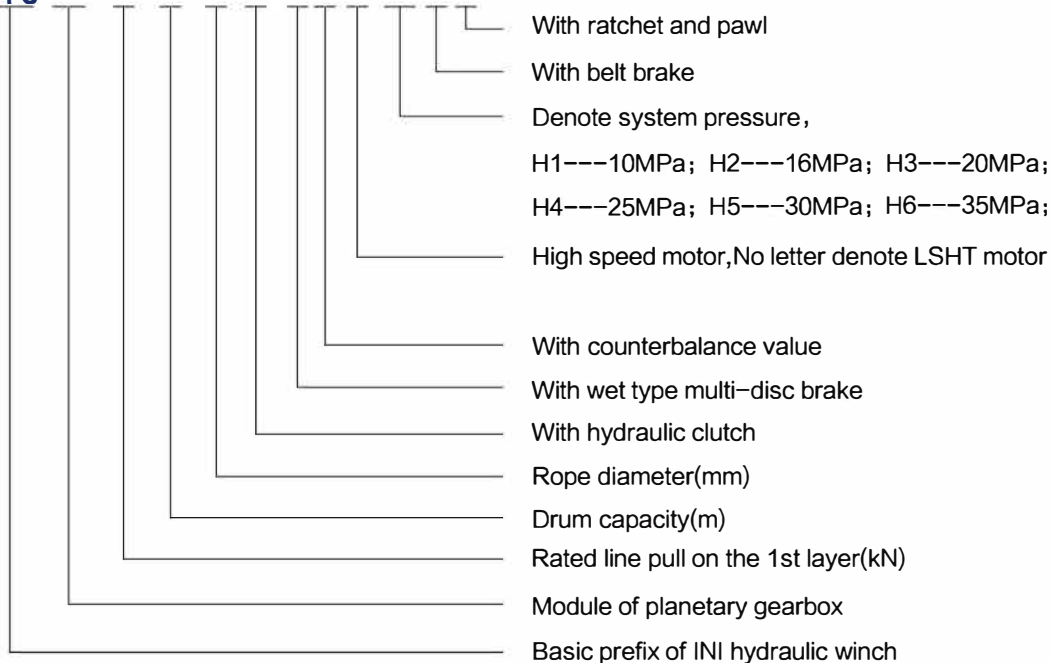
1. Brief Introduction

The IYJ-L series hydraulic winch consist of planetary gearbox,hydraulic motor,wet type brake,various valve blocks of single counterbalance vavle and shuttle valve,drum,frame and hydraulic control clutch.So the series not only simplified hyaulic system design,but also improved reliability and durability . The series could get two speed control if fitted with variable displacement two speed hydraulic motor.When fitted with hydraulic axial piston motor, the working pressure and drive power of the series could be greatly improved.

The IYJ-L series hydraulic winch feature smooth performance in hoisting and lowering.The final stage of the series is fitted with hydraulic clutch (invention patent of our company) to get free fall function . The winch series have long life , compact design and good economy . Therefore the series have been widely applied in pipe laying machine , crawer cranes, vehicle cranes,grab bucket cranes,crushers.The series not only widely have been used in domestic market,but also have been exported to Middle East,India,Africa,Russia and Netherlands and so on.

2. Model Options

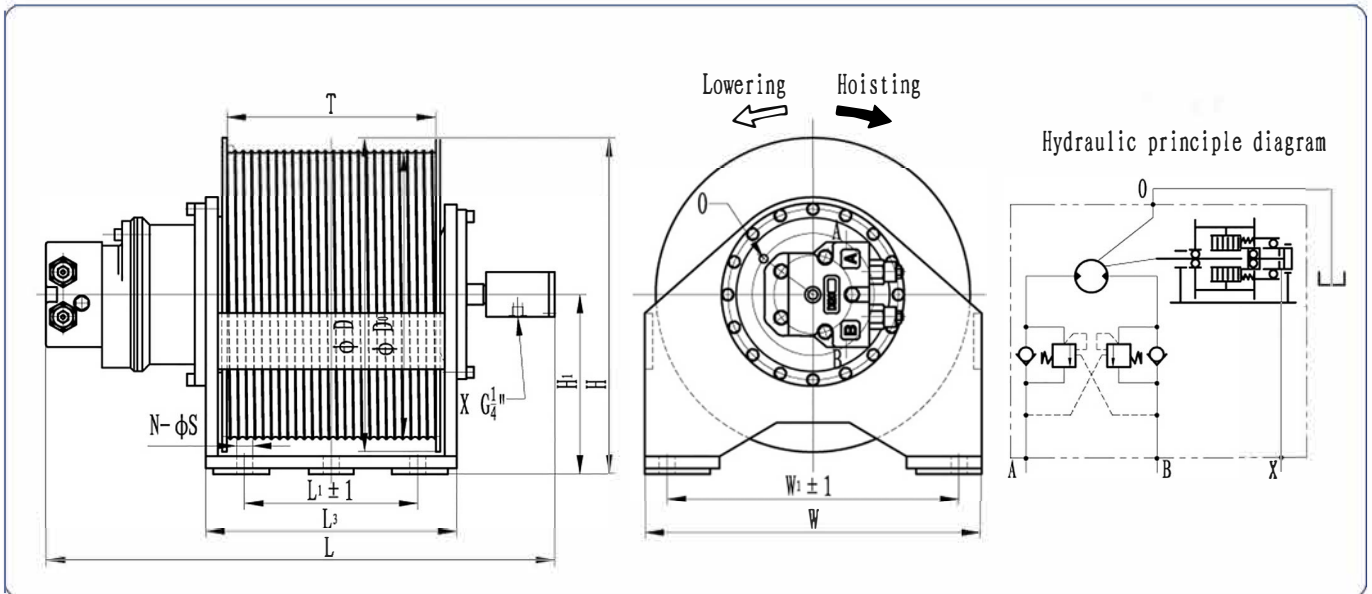
IYJ ** - * - * - * - L - Z P G H * D S



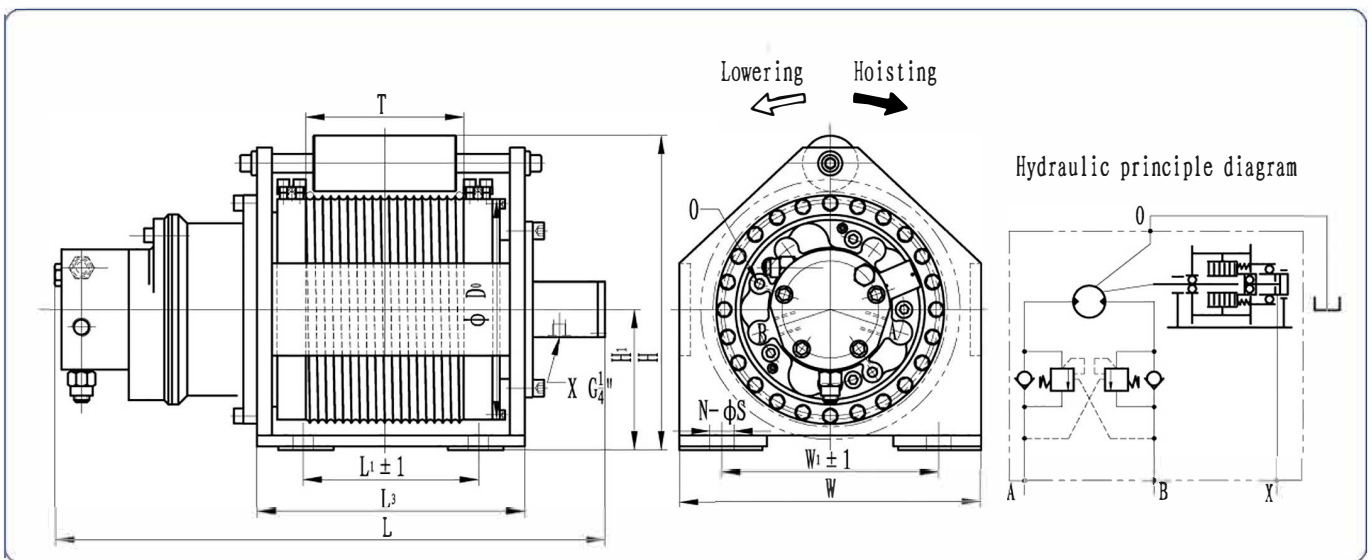
3. Options Example

IYJ34-75-88-22-L-ZPGH4 type represents that the planetary gearbox has 2 stages with module 3 and 4 respectively. The line pull on the 1st lyer is 75kN with drum capacity of 88m and a rope diameter of 22mm.The winch is fitted with a piston motor,paking brake,single counterbalance valve,and hydraulic clutch.The winch system pressure is 25MPa.

● IYJ-L

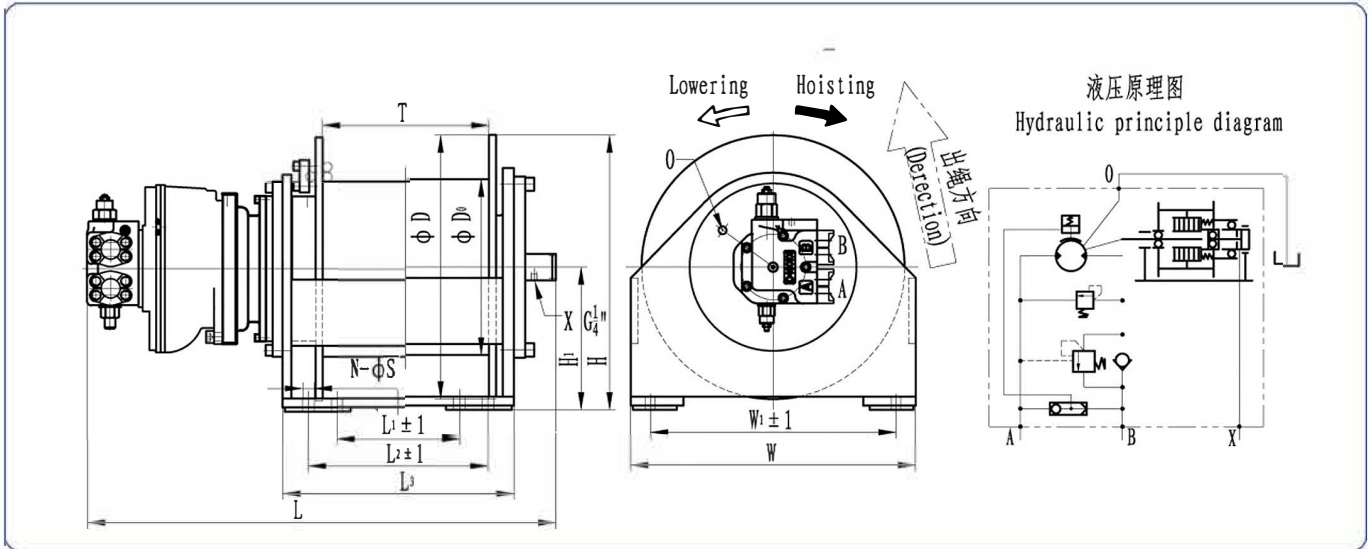


系列代号 Serial code	第一层拉力 The 1st Layer Pull (tN)	第一层绳速 The 1st layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D ₀	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W	H ₁	H	N	S	A, B	O
IYJ2.5-L	6	90	1337	10	100	10	1	30	7	8.5	380	420	280	232	-	336	682	390	-	-	450	240	450	6	φ22	M33x2	G1/4"
	10	45	1337	13	100	10	1	30	7	8.5	380	420	280	232	-	336	682	390	-	-	450	240	450	6	φ22	M33x2	G1/4"
	15	30	1337	18	100	10	1	30	7	8.5	380	420	280	232	-	336	682	390	-	-	450	240	450	6	φ22	M33x2	G1/4"

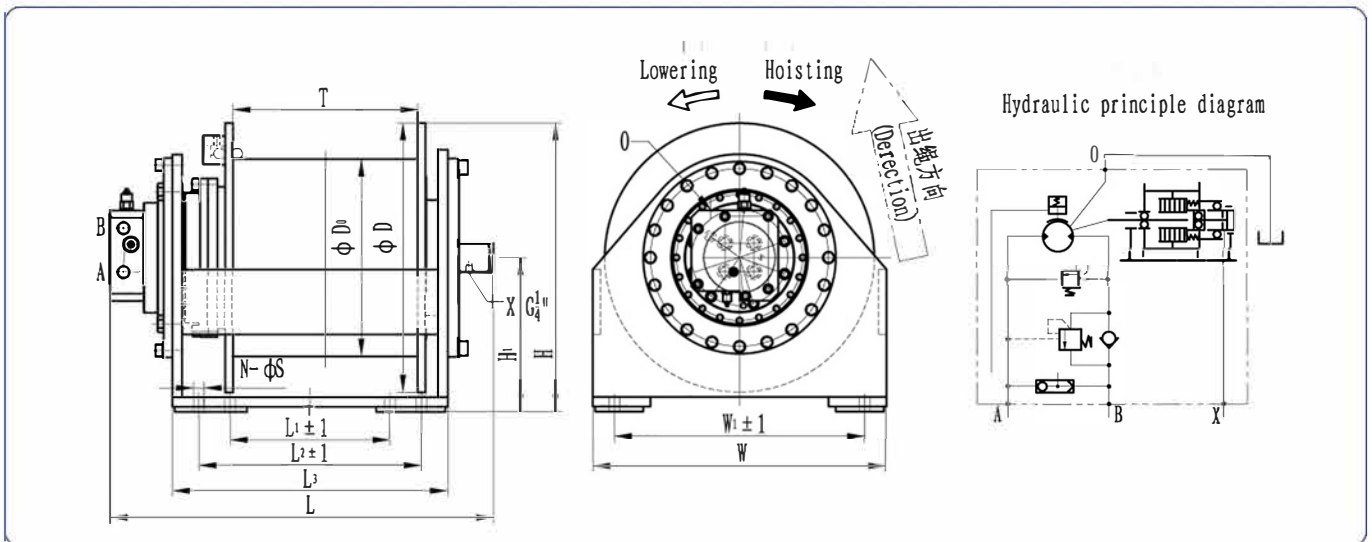


系列代号 Serial code	第一层拉力 The 1st Layer Pull (tN)	第一层绳速 The 1st layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D ₀	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W	H ₁	H	N	S	A, B	O
IYJ2.5-L	7.7	46	709.5	12	46	8	1	10	5.5	5.5	238	-	171	190	-	290	560	235	-	-	327	152	340	4	φ22	G1"	G1/4"

● IYJ-L



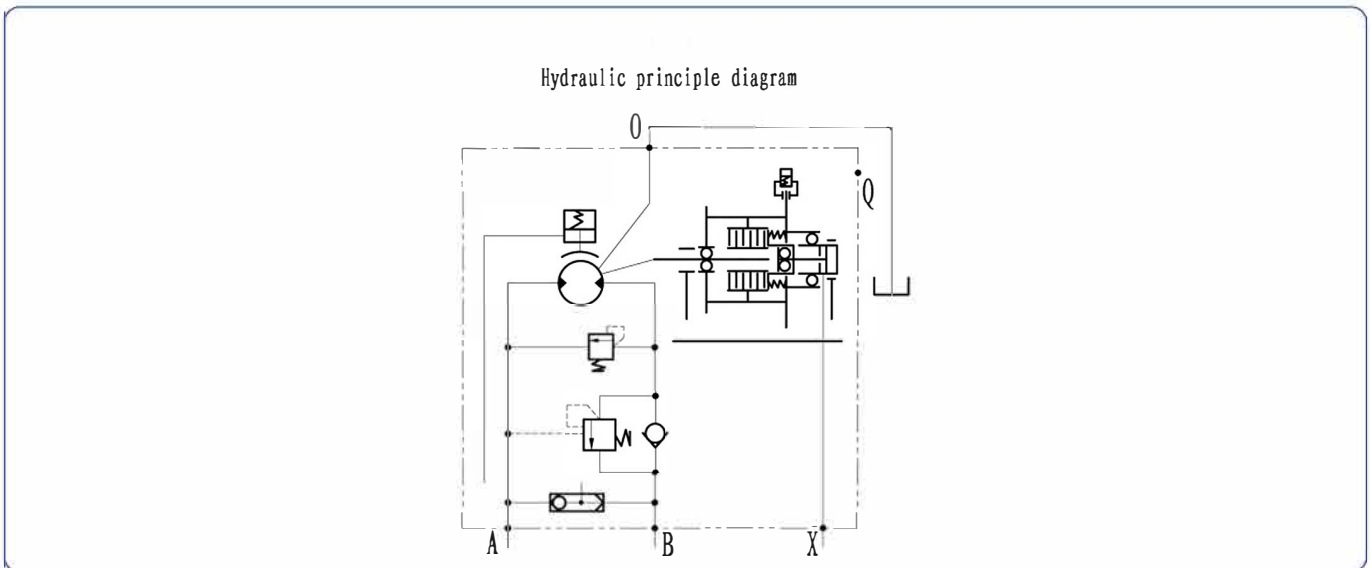
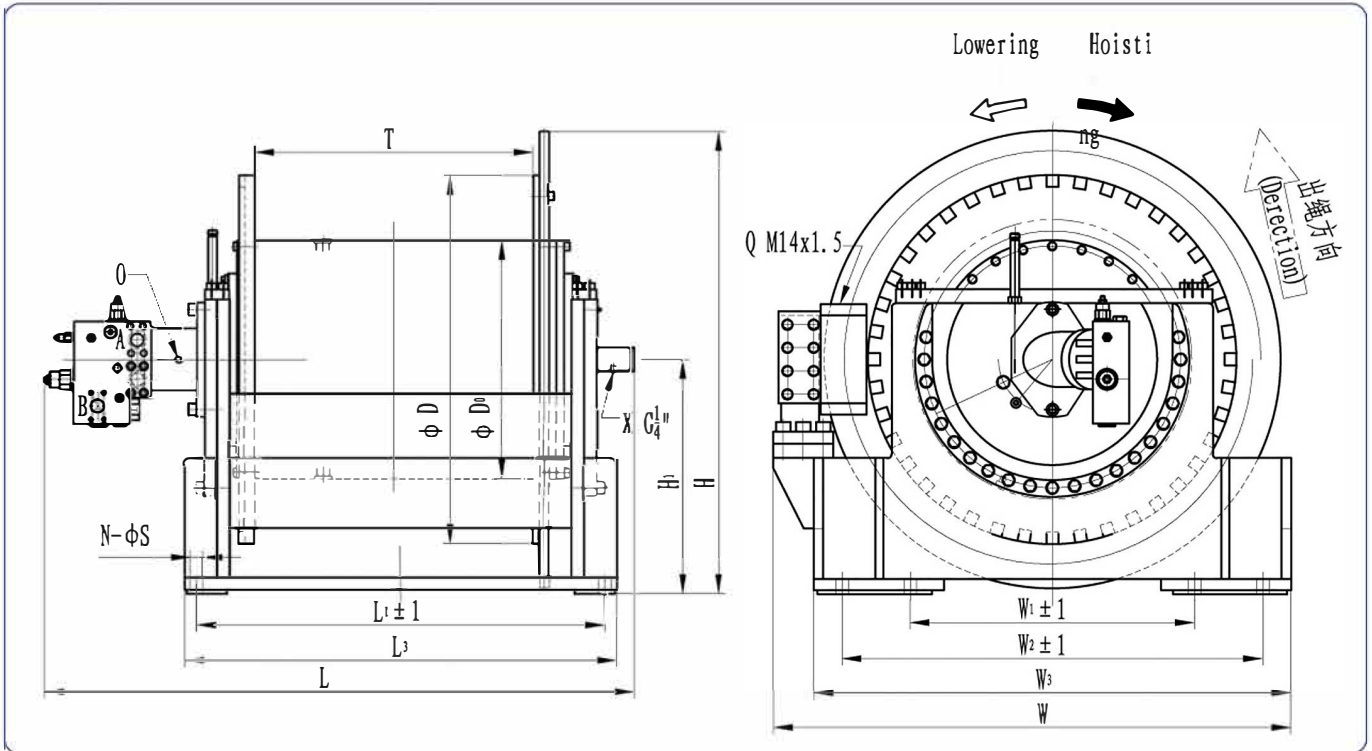
系列代号 Serial code	第二层拉力 The 2nd Layer Pull (kN)	第二层绳速 The 2nd Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D0	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A, B	O
IYJ4 L	30	50	3272.5	18	126	20	2	50	5.5	7.5	400	600	462	362	492	610	1098	560	-	-	650	325	625	8	φ22	φ25	G1/2"
	50	50	5544	18	202	22	2	40	7	7.5	400	600	380	280	410	528	1106	560	-	-	650	325	625	8	φ22	φ40	G1/2"
	70	24	7238	20	129	22	2	45	5.5	7.5	400	600	380	280	410	528	1106	560	-	-	650	325	625	8	φ22	φ25	G1/2"
	95	22	11038.5	16	185	22	2	45	5.5	7.5	400	600	380	280	410	528	1106	560	-	-	650	325	625	8	φ22	φ25	G1/2"



系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D0	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A, B	O
IYJ33 L	50	25	3963.42	23	80	22	1	23	45.4	7.5	410	560	385	333	463	573	794	520	-	-	610	320	600	8	φ22	G3/4"	G1/2"
IYJ333-L	60	40	4063.9	24	150	20	3	80	72.57	7.5	380	560	437	440	-	601	923	480	-	-	616	320	600	4	φ32	φ20	M18x1.5
	80	40	4063.9	32	150	20	3	80	72.57	7.5	380	560	437	440	-	601	923	480	-	-	616	320	600	4	φ32	φ20	M18x1.5



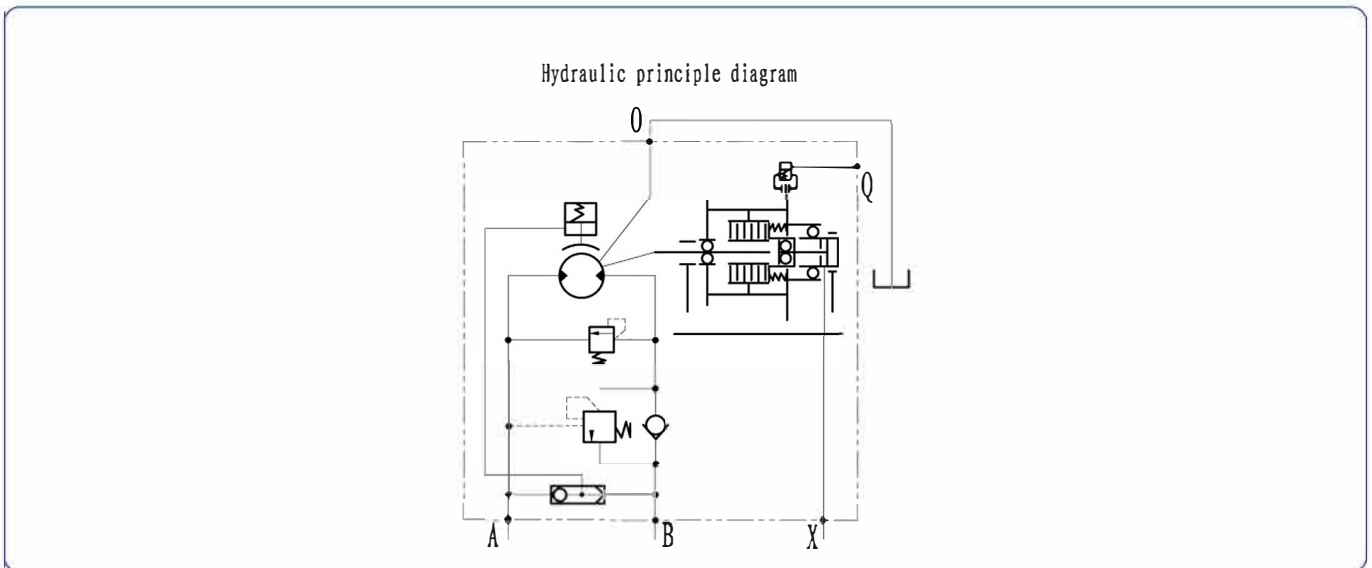
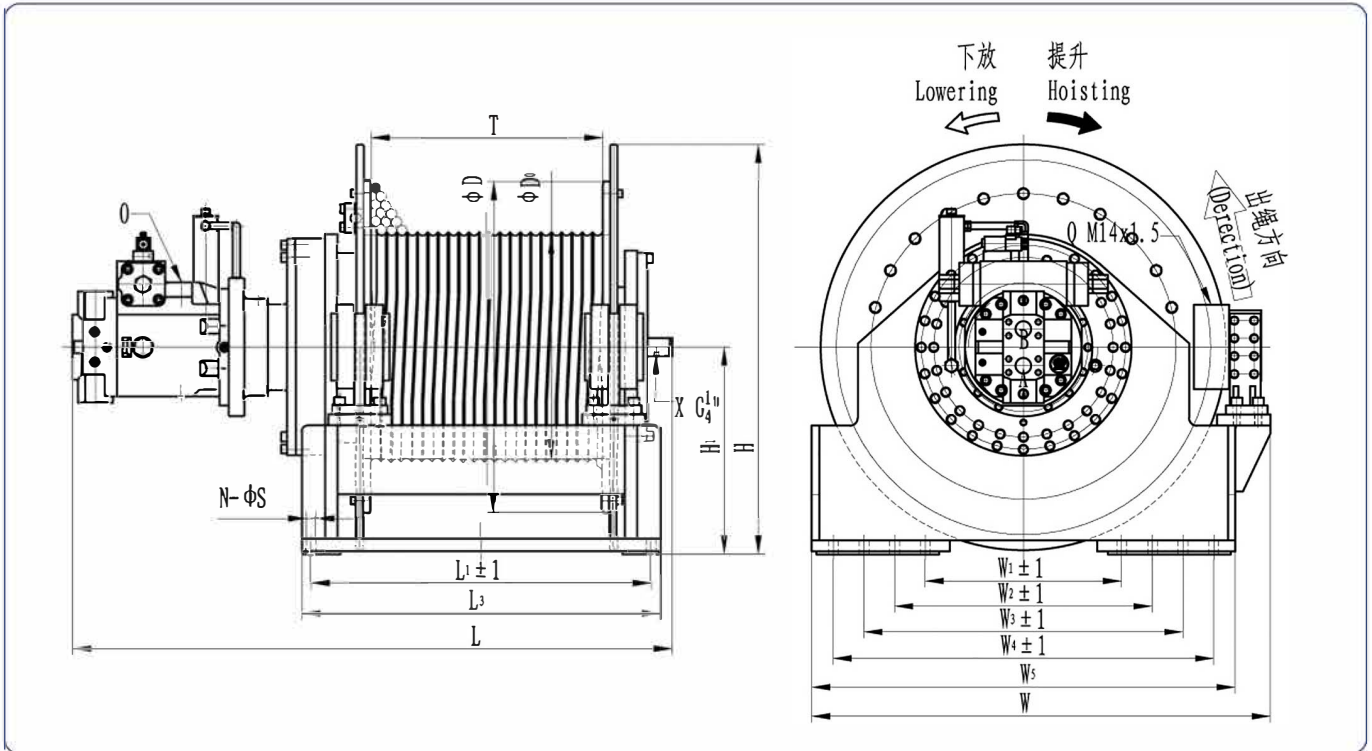
● IYJ-L



系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (l./min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速机传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D0	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A、B	Q
IYJ46-L	100	90	9154.3	28	478	26	4	200	50.86	7.5	595	920	696	1020	-	1080	1475	710	1050	1192	1295	585	1155	8	φ32	φ32	M22x1.5
	120	76	11047.2	28	478	28	4	200	61.37	7.5	595	920	691	1020	-	1080	1475	710	1050	1192	1295	585	1155	8	φ32	φ32	M22x1.5
IYJ4.57-L	150	80	12937.5	30	556	28	4	230	51.75	7.5	630	950	750	700	-	1087	1600	840	1040	1200	1305	600	1180	8	φ32	φ32	M22x1.5
	160	76	12937.5	32	530	28	4	230	51.75	7.5	630	950	750	700	-	1087	1600	840	1040	1200	1305	600	1180	8	φ32	φ32	M22x1.5



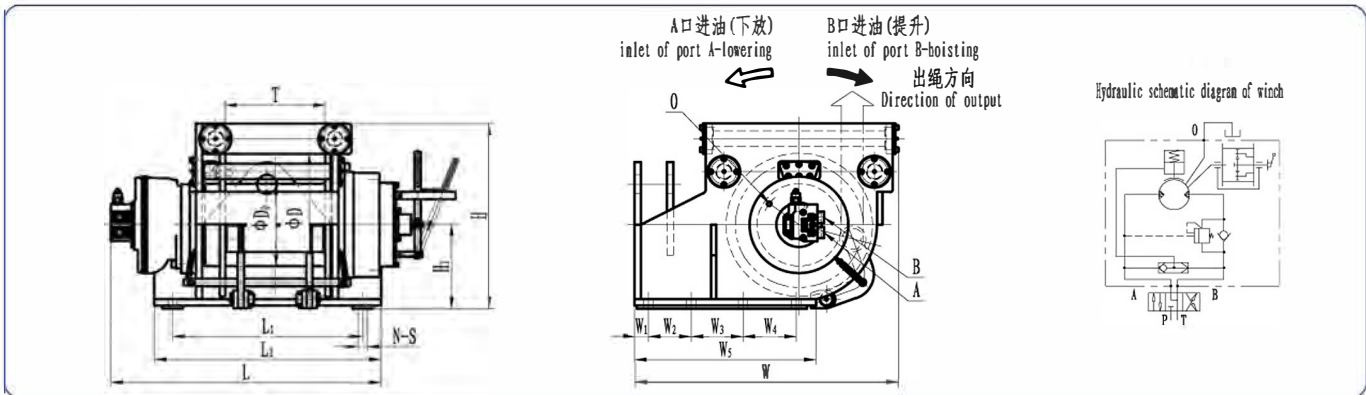
● IYJ-L



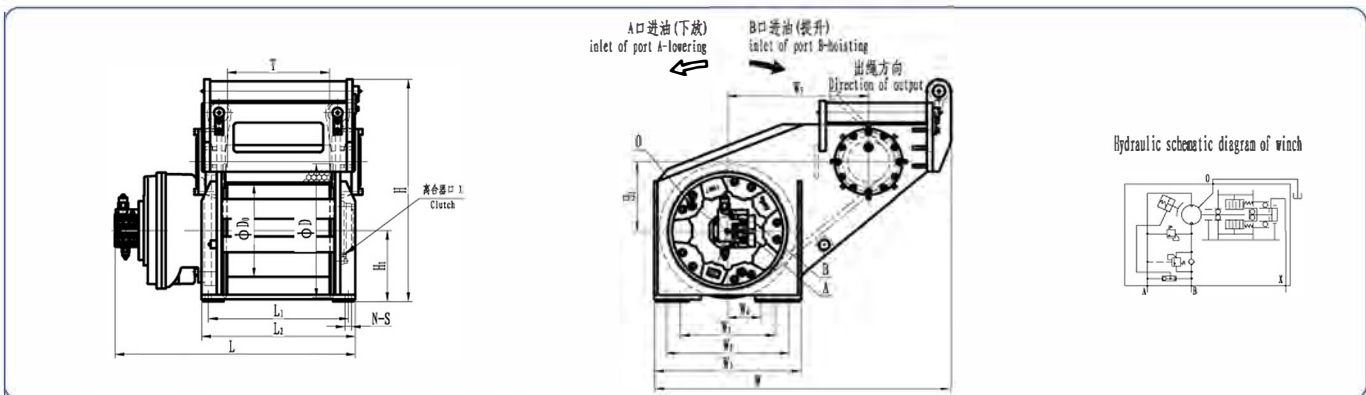
系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																		
											D ₀	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W ₄	W ₅	W	H ₁	H	N	S	A、B	O
IYJ57-L	160	68	17400	30	550	32	5	300	87	5	730	1080	756	1110	-	1170	1958	640	840	1040	1240	1380	1495	675	1335	16	φ32	φ32	M26x1.5
	200	64	26600	24	785	32	5	300	53.2	5	730	1080	756	1110	-	1170	1958	640	840	1040	1240	1380	1495	675	1335	16	φ32	φ50	M48x2
	250	64	26600	30	785	32	5	300	53.2	5	730	1080	756	1110	-	1170	1958	640	840	1040	1240	1380	1495	675	1335	16	φ32	φ50	M48x2
	300	40	30885	30	574	32	5	300	87	5	730	1080	756	1110	-	1170	1958	640	840	1040	1240	1380	1495	675	1335	16	φ32	φ38	M42x2



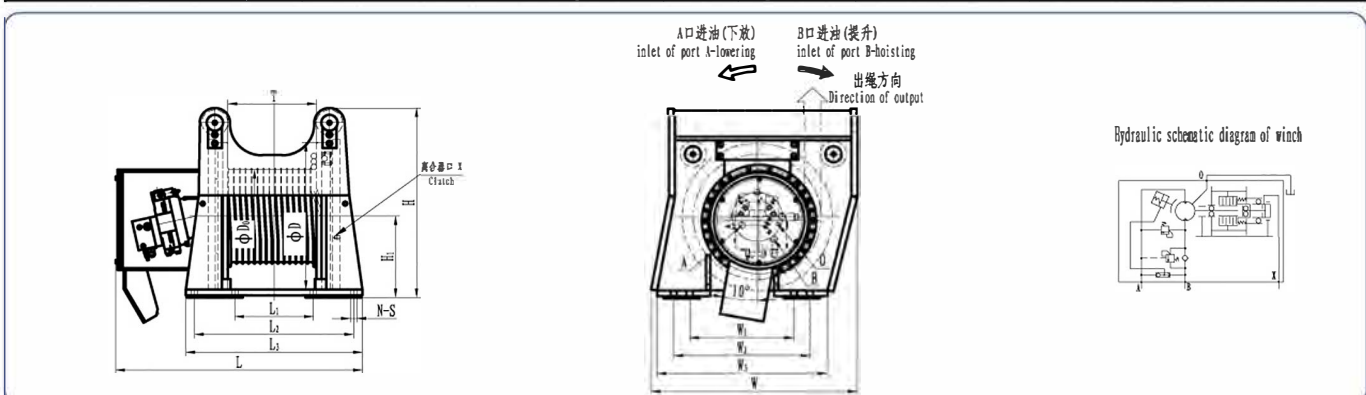
● IYJ-L



系列代号 Serial code	第一层拉力 The 1st Layer Pull		第一层绳速 The 1st Layer Rope Speed		总排量 Displacement		工作压力 Working pressure	供油流量 Supply oil flow	钢丝绳直径 Diameter of rope	层数 Layer	容量 Capacity of rope	减速机传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																					
	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							Do	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W ₄	W ₅	W	H ₁	H ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ45-ZPL	210	-	7.9	-	22218	-	15	274	28	3	50	32.2	325	565	386	732	875	-	1330	54	165	199	260	700	1017	330	-	730	8	Φ35	Φ35	G1/2"	-	



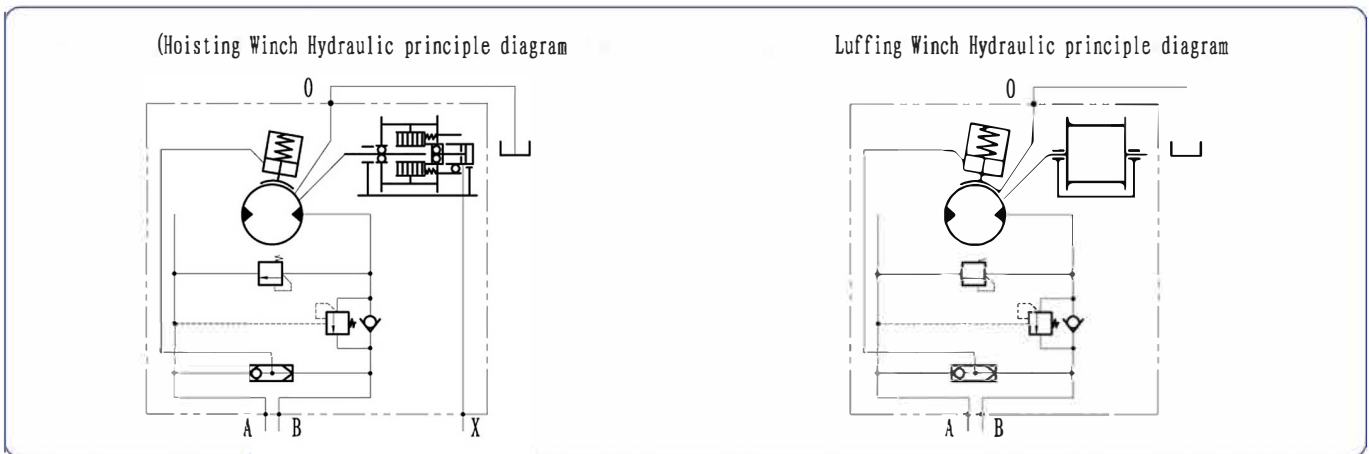
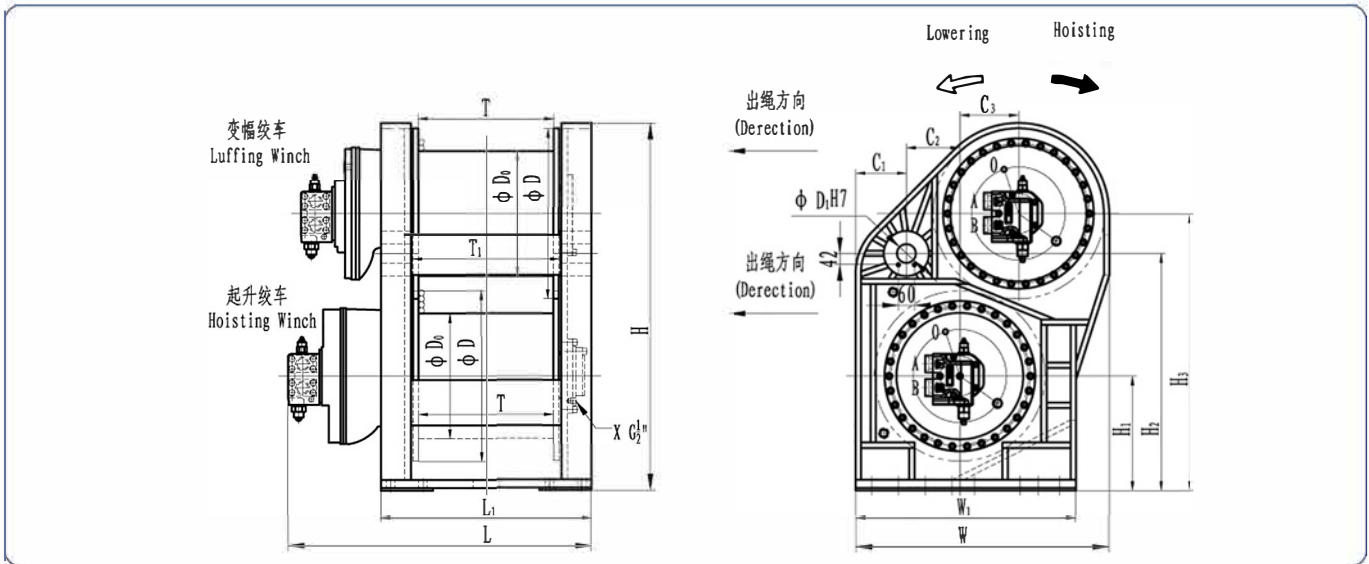
系列代号 Serial code	第一层拉力 The 1st Layer Pull		第一层绳速 The 1st Layer Rope Speed		总排量 Displacement		工作压力 Working pressure	供油流量 Supply oil flow	钢丝绳直径 Diameter of rope	层数 Layer	容量 Capacity of rope	减速机传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																					
	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							Do	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W ₄	W ₅	W	H ₁	H ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ5-ZPL	150	-	20	-	19860.5	-	16	274	26	3	90	5.5	470	680	510	696	766	-	1197	470	610	730	165	-	1475	360	350	1130	10	Φ32	Φ35	G1/2"	G1/2"	



系列代号 Serial code	第一层拉力 The 1st Layer Pull		第一层绳速 The 1st Layer Rope Speed		总排量 Displacement		工作压力 Working pressure	供油流量 Supply oil flow	钢丝绳直径 Diameter of rope	层数 Layer	容量 Capacity of rope	减速机传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																					
	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							Do	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W ₄	W ₅	W	H ₁	H ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ35.55-ZPL	300	70	10.6	24.2	25280	11060	23/12	184	10	3	70	158	470	750	441	392	792	880	1230	520	680	850	-	-	1000	415	-	965	12	Φ32	M33x2	M22x1.5	M1x1.5	



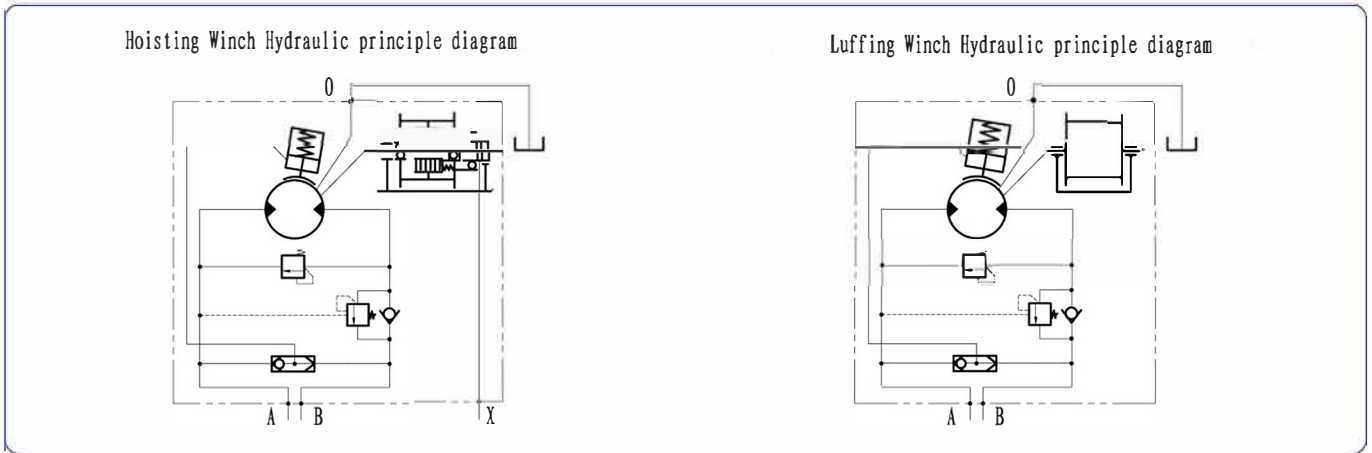
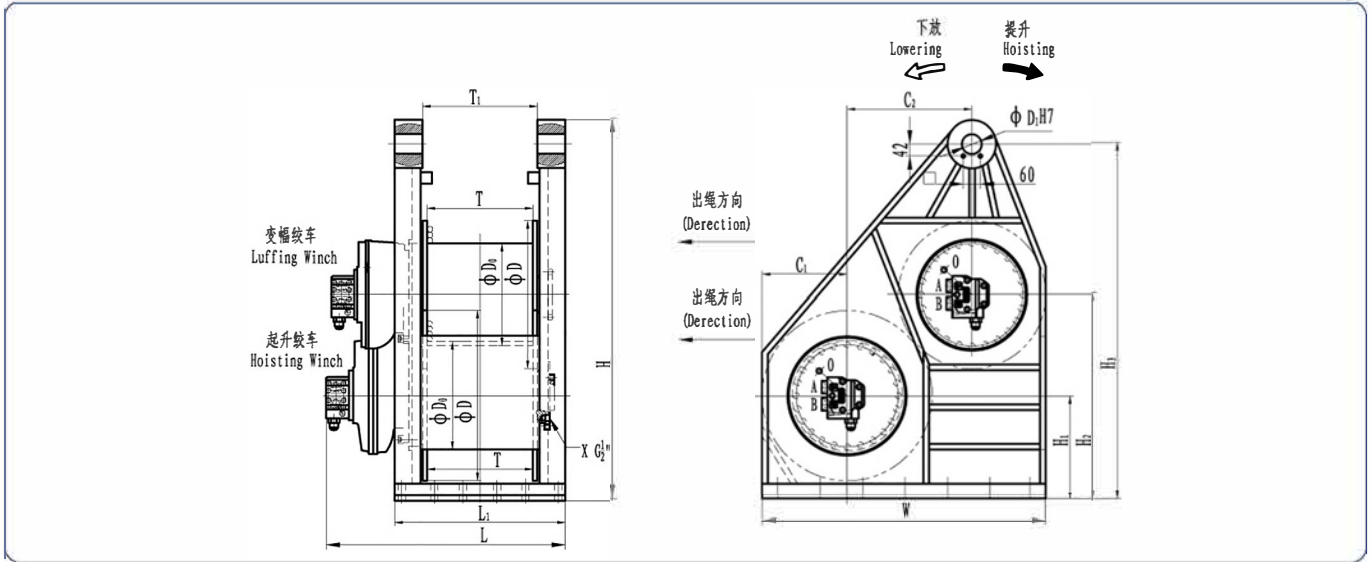
● IYJ-L



吊管机 系列代号 Pipelayer Serial code	绞车类别 Winch code	第二层拉力 The 2nd Layer Pull (kN)	第二层绳速 The 2nd Layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器 传动比 Gearbox ratio	离合器完全 开启压力 Clutch opening pressure(MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																		
												Do	D	T	T1	A	B	O	D1	L1	L	W1	W	C1	C2	C3	H1	H2	H3	H
25T	Luffing Winch	35	41.5	3115	18	132	16	3	40	5	-	300	400	226	364	Φ25	G1/2"	60	550	774	560	700	180	100	200	325	710	820	1020	
	Hoisting Winch	49	50	4365	18	184	18	3	67	5	-	360	560	330	Φ25	G1/2"														
30T	Luffing Winch	50	40	3795	22	126	18	3	50	5.5	-	360	520	276	Φ25	G1/2"														
	Hoisting Winch	45	68	3795	22	210	18	3	70	5.5	5	380	540	346	Φ40	G1/2"	55	606	868	595	785	160	145	220	315	700	810	1070		
50T	Luffing Winch	50	40	4972	20	162	20	3	60	5.5	-	360	510	320	Φ25	G1/2"														
	Hoisting Winch	82	54	7264	20	320	20	4	100	4	5	380	600	372	Φ40	G1/2"	60	606	918	600	785	170	130	210	343	763	870	1127		
70T	Luffing Winch	80	44	11698.5	16	345	20	2	75	5.5	-	470	640	510	Φ40	G1/2"														
	Hoisting Winch	100	47	11038.5	20	345	20	2	75	5.5	5	470	640	510	556	Φ40	G1/2"	70	792	1148	825	950	190	200	220	430	890	1040	1300	
90T	Luffing Winch	100	54.5	11038.5	22	400	22	2	70	5.5	-	470	640	510	Φ40	G1/2"														
	Hoisting Winch	120	52	11698.5	22	400	22	3	85	5.5	5	470	640	510	556	Φ40	G1/2"	70	792	1148	825	950	190	200	220	430	890	1040	1300	
110T	Luffing Winch	125	38	13821.5	20	350	22	2	70	5.5	-	470	680	510	Φ40	G1/2"														
	Hoisting Winch	150	32	16417.5	20	350	22	3	100	5.5	5	470	680	510	556	Φ40	G1/2"	70	792	1215	680	1000	240	100	320	400	835	1030	1370	

Note: Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

● IYJ-L



吊管机 系列代号 Pipelayer Serial code	绞车类别 Winch code	第二层拉力 The 2nd Layer Pull (kN)	第二层绳速 The 2nd Layer Rope Speed (m/min)	总排量(ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器 传动比 Gearbox ratio	离合器完全 开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
												D0	D	T	T1	A	B	O	D1	L1	L	W	C1	C2	C3	H1	H2	H3
40T	Luffing Winch	55	40	4801.5	20	165	18	3	60	5.5	-	360	520	312	404	Φ 25	G1/2"	55	600	878	900	300	340	-	370	830	1285	1370
	Hoisting Winch	55	54	4361.5	22	200	18	4	97	5.5	14	380	600	372		Φ 25	G1/2"											
45T	Luffing Winch	55	40	4801.5	20	165	18	3	60	5.5	-	360	520	372	404	Φ 25	G1/2"	70	600	878	1000	300	440	-	370	725	1255	1340
	Hoisting Winch	55	54	4361.5	22	200	18	4	97	5.5	14	380	600	372		Φ 25	G1/2"											

Note: Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

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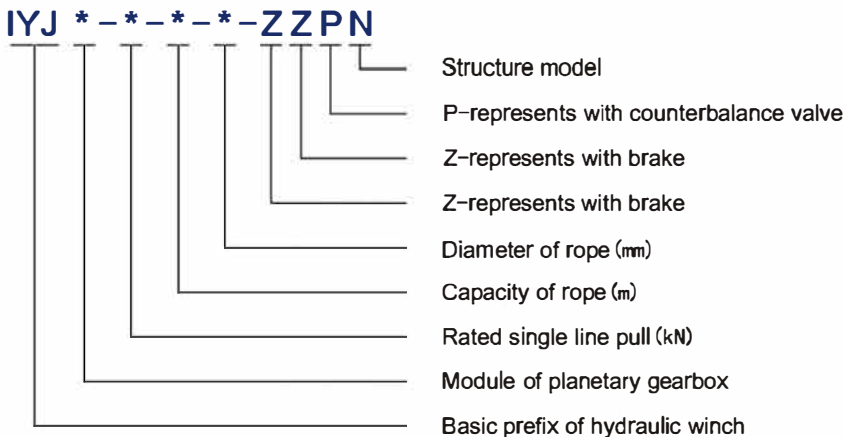


● IYJ-ZZ Series Manned Hydraulic Winch with Dual Brakes

1. Brief Introduction

IYJ-ZZ Series Manned Hydraulic Winch with Dual Brakes is independently developed by our company, has applied for a number of inventions and utility model patents, and obtained the "Made in Zhejiang" brand certification. And they are mainly consist of axial piston hydraulic motor, two Z type hydraulic multi-disc brakes and C type or KC type planetary gearbox, clutch, drum, supportshaft, frame. Hydraulic motor can choose different distributor according to the working conditions, such as counterbalance valve、 overload valve、 shuttle valve、 speed control directional valve and other functions' valve. This series winches featured compact and elegant figure, small size and lightweight, and a high efficiency and power, low noise and good operating performance, and the two single brakes can give the winches good safety. This series of hydraulic winches have been approved by CCS and BV, and they can be used on of shore application to life people. Technical specification follow international convention on the law of the sea. IYJ-ZZ series hydraulic winches have been well sold in China company and also have been exported to the Singapore, Netherlands and other areas in the world.

2. Model Options



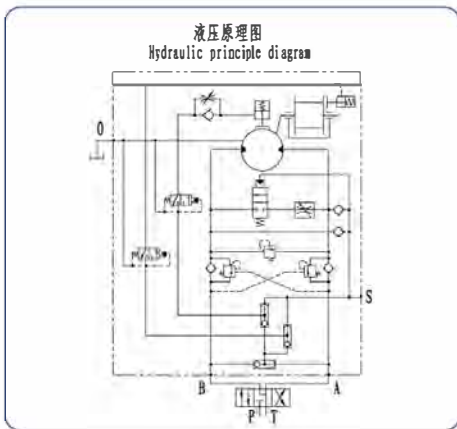
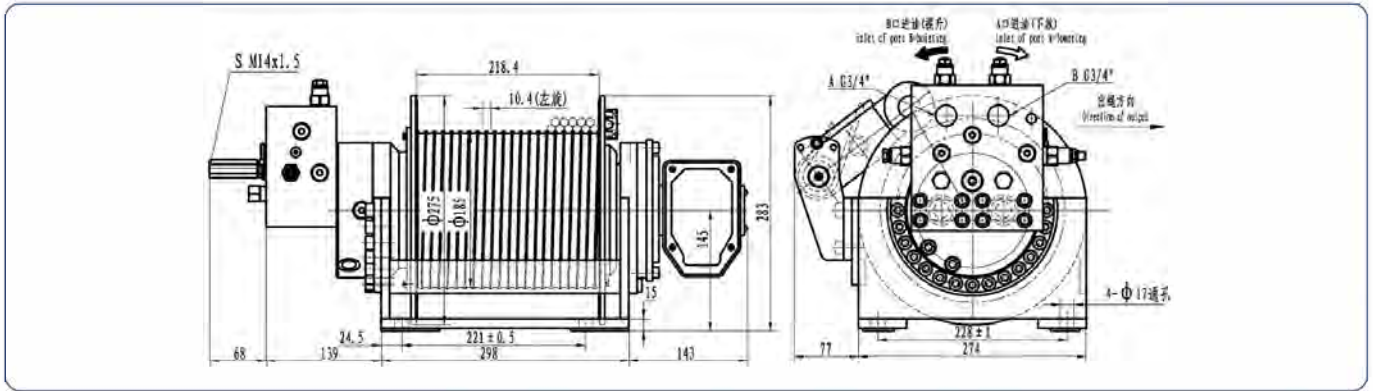
3. Options Example

IYJ33.75-60-172-18-ZZPN represents that the hydraulic winch adopts two levels planetary gearbox, and the modules of the gearbox are 3 and 3.75 respectively, the rated single pull on 1st layer is 60KN, drum capacity is 172m, rope diameter is 18mm, the winch is fitted with brake, counterbalance valve, and structure model is N.

4. Parameter description

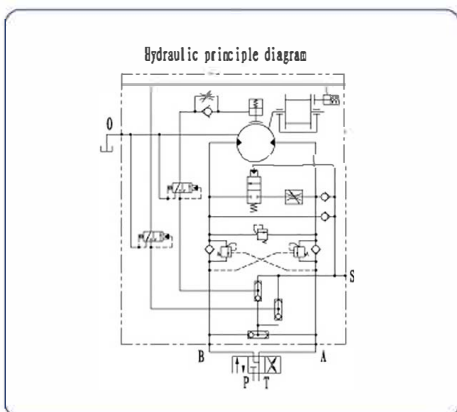
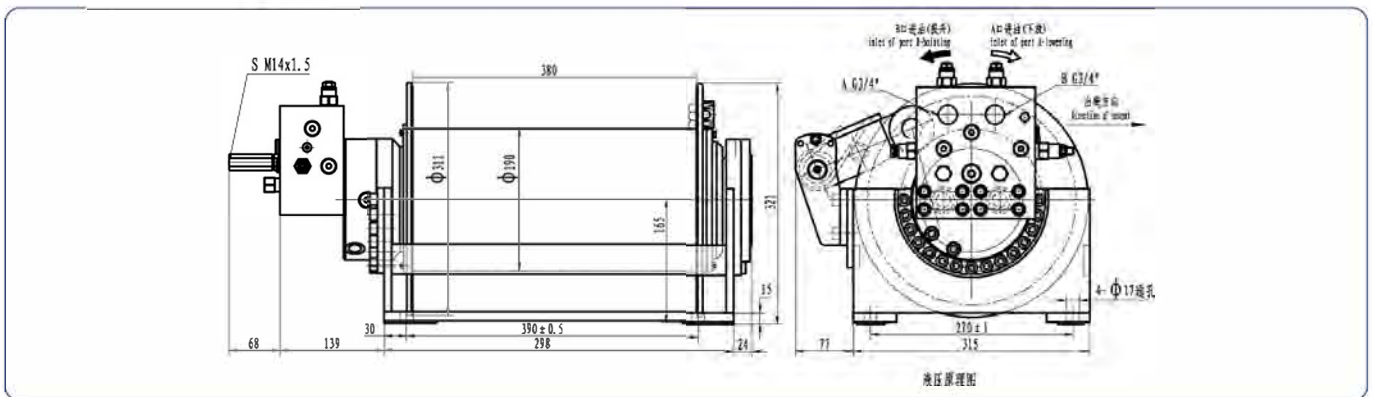
- a. Total displacement represents the capacity of oil supply per revolution.
- b. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 85%–94%.
- c. Drum capacity is theoretical drum capacity. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.

● IYJ22-ZZ



Main Specification

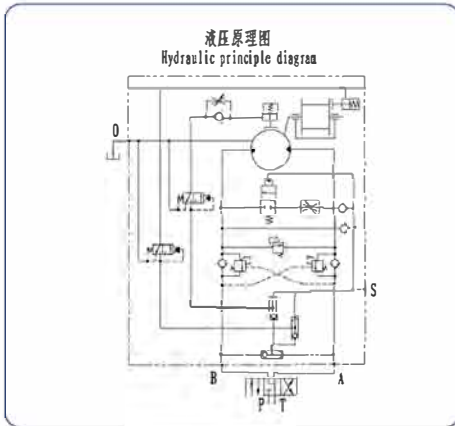
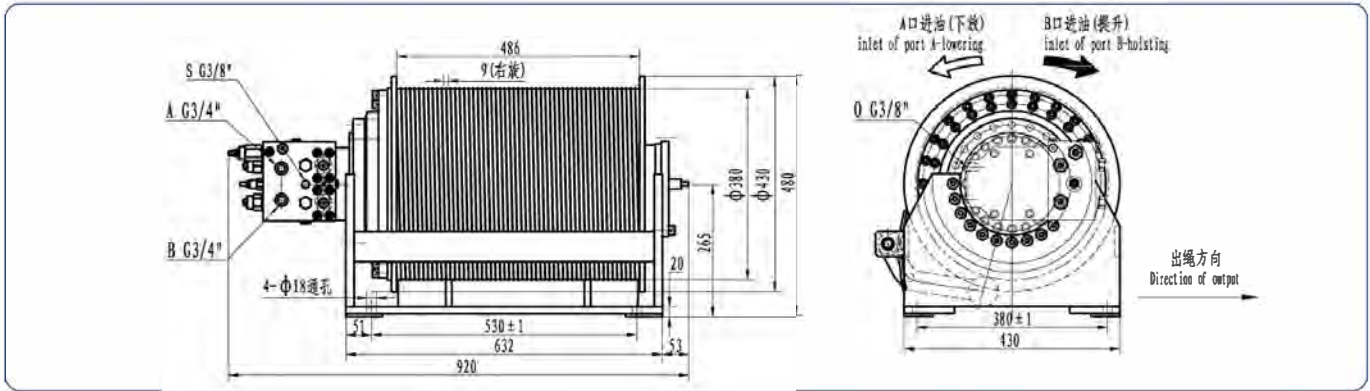
工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	2	2
第一层额定拉力 The 1st Layer Line pull(kN)	13	6.5
第一层额定绳速 The 1st Layer Rope speed(m/min)	32	32
总排量 Total Displacement (ml/r)	556	556
系统压力 System Rated Pressure (Bar)	180	90
供油流量 Pump Supply Oil Flow(L/min)	32	
绳索直径 Rope Diameter (mm)	10	
容绳量 Drum Capacity (m)	27	
液压马达型号 Hydraulic Motor Model	IAM18	
减速器型号 Gearbox Model (Ratio)	KC22 (i=30.89)	
马达制动扭矩 Static brake torque of motor(N·m)	600	
卷筒制动扭矩 Static brake torque of drum(N·m)	3100	



Main Specification

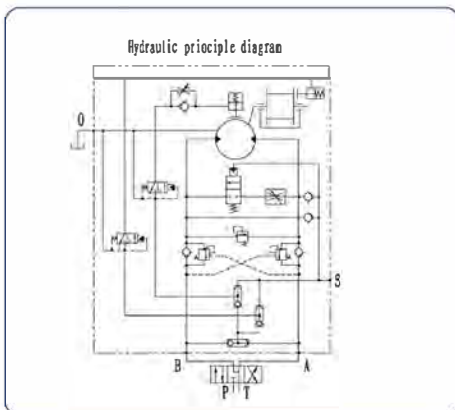
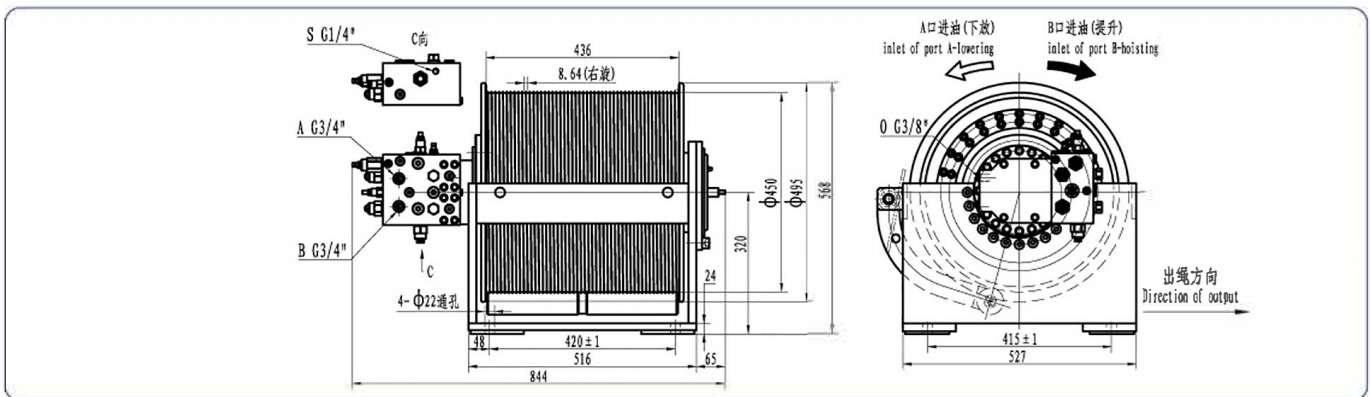
工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	3	3
第一层额定拉力 The 1st Layer Line pull(kN)	13	6.5
第一层额定绳速 The 1st Layer Rope speed(m/min)	30	30
总排量 Total Displacement (ml/r)	810	810
系统压力 System Rated Pressure (Bar)	150	75
供油流量 Pump Supply Oil Flow(L/min)	43	
绳索直径 Rope Diameter (mm)	11	
容绳量 Drum Capacity (m)	70	
液压马达型号 Hydraulic Motor Model	IAM18	
减速器型号 Gearbox Model (Ratio)	KC22 (i=45)	
马达制动扭矩 Static brake torque of motor(N·m)	600	
卷筒制动扭矩 Static brake torque of drum(N·m)	3100	

● IYJ33-ZZ



Main Specification

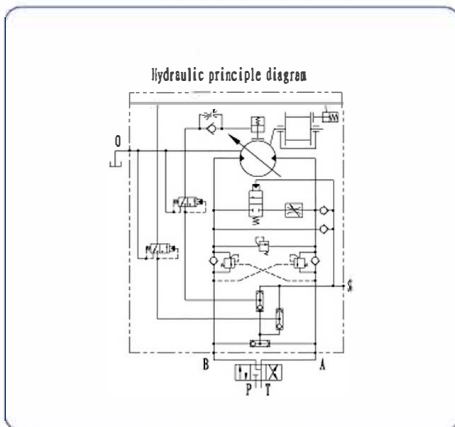
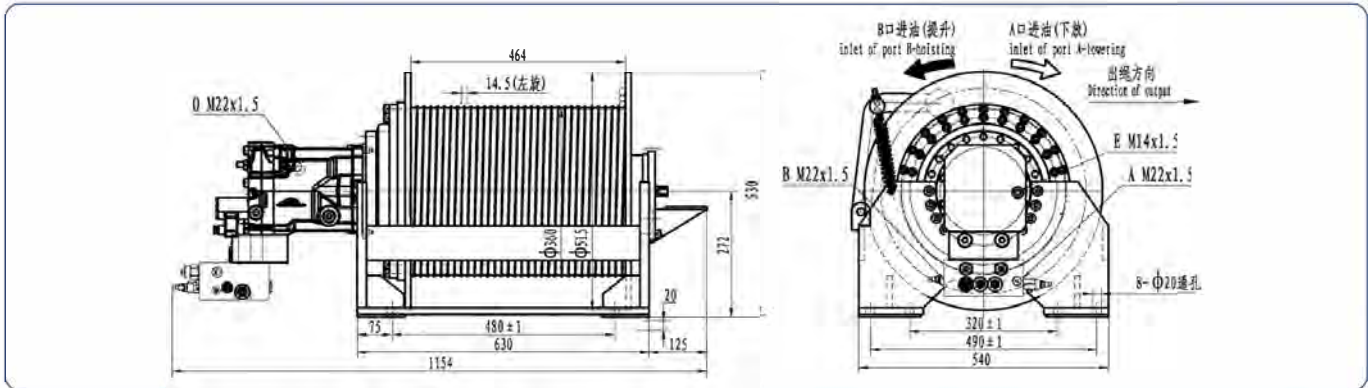
工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	1	1
第一层额定拉力 The 1st Layer Line pull(kN)	5	2.5
第一层额定绳速 The 1st Layer Rope speed(m/min)	72	72
总排量 Total Displacement(ml/r)	954	954
系统压力 System Rated Pressure(Bar)	100	50
供油流量 Pump Supply Oil Flow(L/min)	61	
绳索直径 Rope Diameter(mm)	8	
容绳量 Drum Capacity(m)	60	
液压马达型号 Hydraulic Motor Model	IM52	
减速机型号 Gearbox Model (Ratio)	KC33 (i=18.38)	
马达制动扭矩 Static brake torque of motor(N·m)	400	
卷筒制动扭矩 Static brake torque of drum(N·m)	9500	



Main Specification

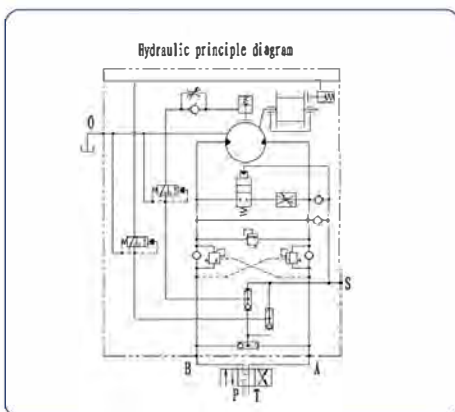
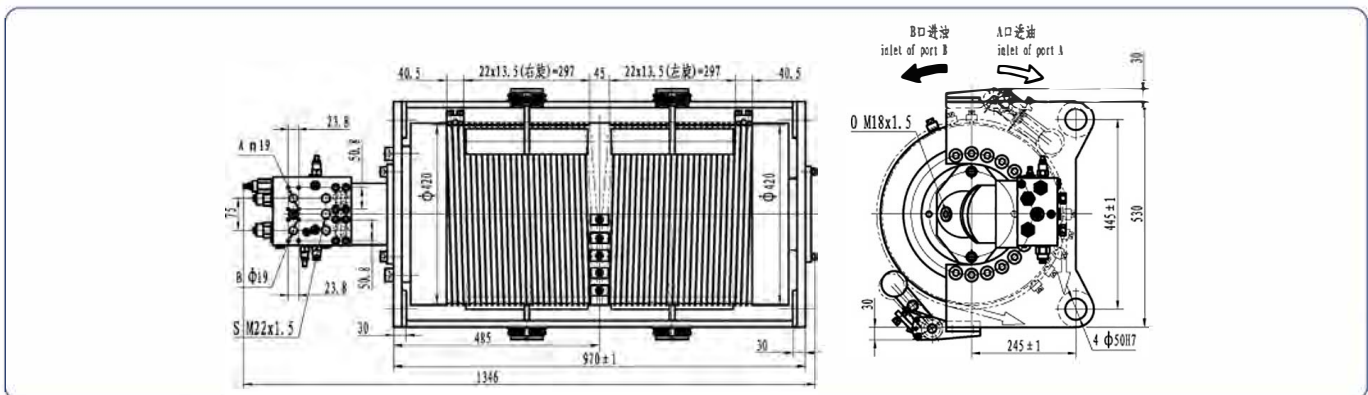
工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	1	1
第一层额定拉力 The 1st Layer Line pull(kN)	7	3.5
第一层额定绳速 The 1st Layer Rope speed(m/min)	74	74
总排量 Total Displacement(ml/r)	954	954
系统压力 System Rated Pressure(Bar)	160	80
供油流量 Pump Supply Oil Flow(L/min)	62	
绳索直径 Rope Diameter(mm)	8	
容绳量 Drum Capacity(m)	70	
液压马达型号 Hydraulic Motor Model	IM52	
减速机型号 Gearbox Model (Ratio)	KC33 (i=18.38)	
马达制动扭矩 Static brake torque of motor(N·m)	400	
卷筒制动扭矩 Static brake torque of drum(N·m)	9500	

● IYJ333-ZZ



Main Specification

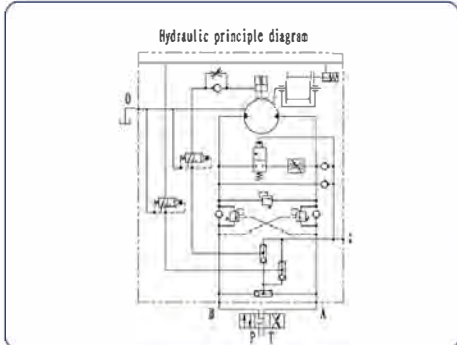
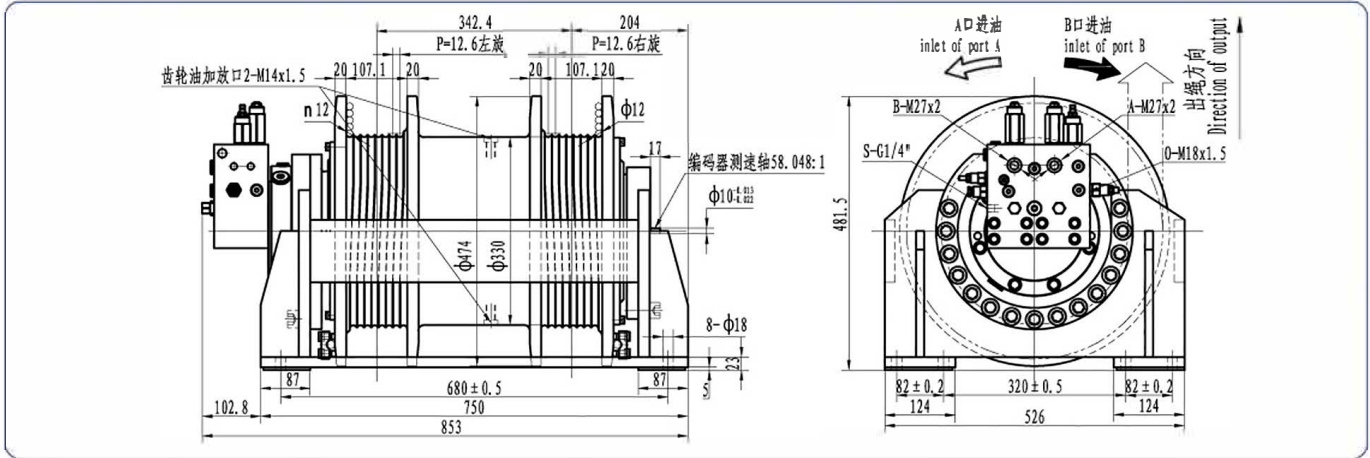
工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	3	3
第三层额定拉力 The 3rd Layer Line pull (kN)	35	17
第三层额定绳速 The 3rd Layer Rope speed (m/min)	20	28
总 排 量 Total Displacement (ml/r)	3406.7	2428.9
系统压力 System Rated Pressure (Bar)	195	140
供油流量 Pump Supply Oil Flow (l/min)	54.25	
绳索直径 Rope Diameter (mm)	14	
容 绳 量 Drum Capacity (m)	120	
液压马达型号 Hydraulic Motor Model	HMV05SE4	
减速器型号 Gearbox Model (Ratio)	KC333 (i=62.28)	
马达制动扭矩 Static brake torque of motor (N·m)	450	
卷筒制动扭矩 Static brake torque of drum (N·m)	16740	



Main Specification

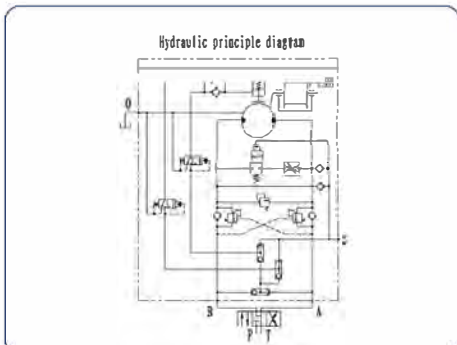
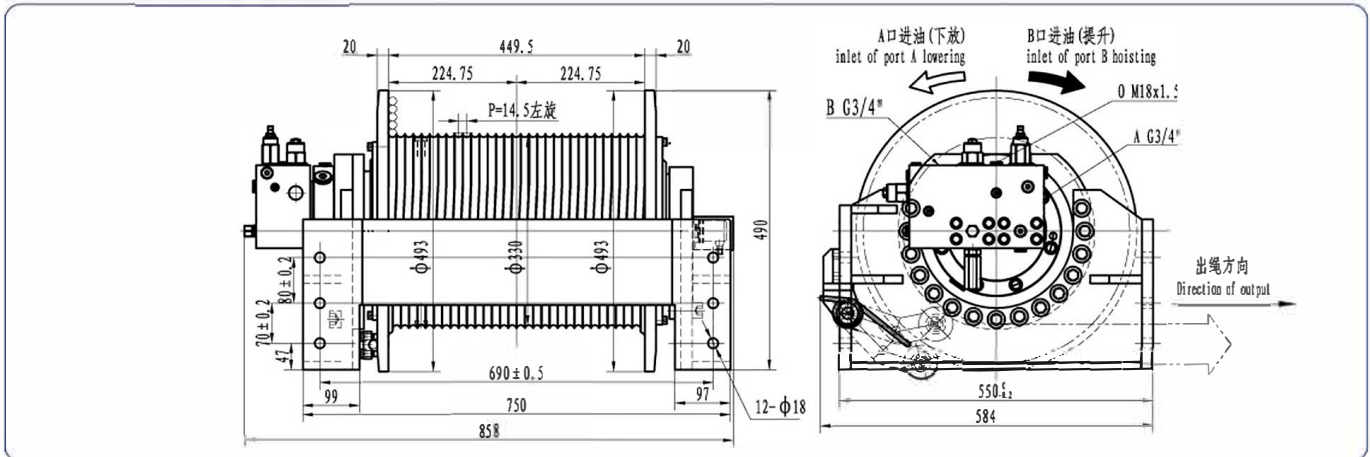
工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	1	1
第一层额定拉力 The 1st Layer Line pull (kN)	30x2	15x2
第一层额定绳速 The 1st Layer Rope speed (m/min)	30	30
总 排 量 Total Displacement (ml/r)	6760.05	6760.05
系统压力 System Rated Pressure (Bar)	190	95
供油流量 Pump Supply Oil Flow (l/min)	166	
绳索直径 Rope Diameter (mm)	13	
容 绳 量 Drum Capacity (m)	30x2	
液压马达型号 Hydraulic Motor Model	A2FE56/6.1WVZL10	
减速器型号 Gearbox Model (Ratio)	IGC24 (i=120.5)	
马达制动扭矩 Static brake torque of motor (N·m)	212	
卷筒制动扭矩 Static brake torque of drum (N·m)	22000	

● IYJ2.53.753.75-ZZ



Main Specification

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	5	5
第一层额定拉力 The 1st Layer Line pull(kN)	25x2	15x2
第一层额定绳速 The 1st Layer Rope speed(m/min)	22.4	22.4
总 排 量 Total Displacement (ml/r)	4013.6	4013.6
系统压力 System Rated Pressure(Bar)	165	99
供油流量 Pump Supply Oil Flow(L/min)	90	
绳索直径 Rope Diameter(mm)	12	
容 绳 量 Drum Capacity(m)	48x2	
液压马达型号 Hydraulic Motor Model	IAM69	
减速器型号 Gearbox Model(Ratio)	IGC36W3 BBS8 IAM69 (i=58)	
马达制动扭矩 Static brake torque of motor (N·m)	200	
卷筒制动扭矩 Static brake torque of drum (N·m)	12500	

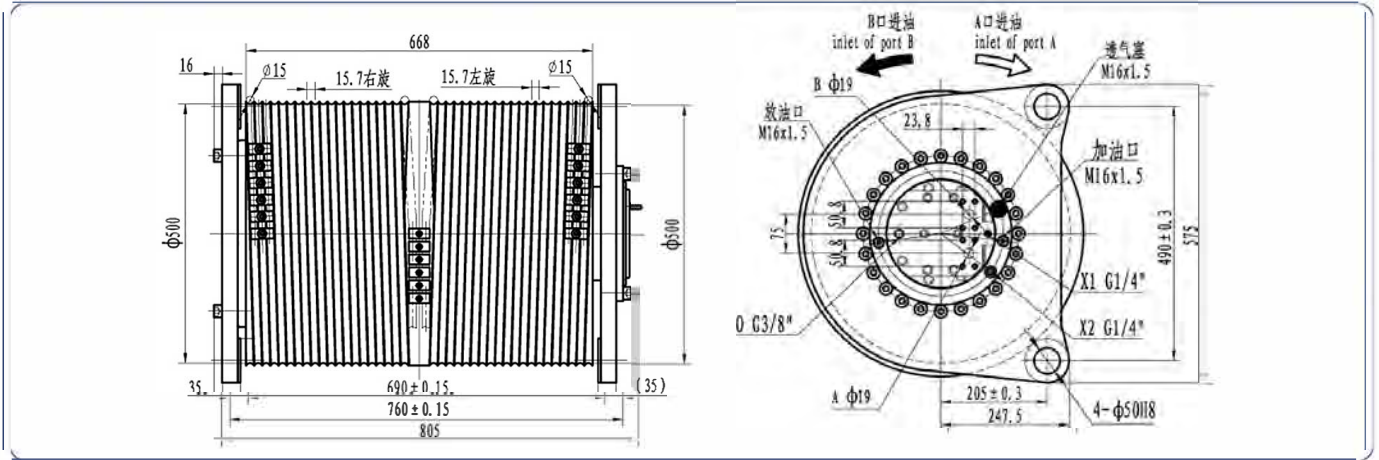


Main Specification

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	5	5
第一层额定拉力 The 1st layer Line pull(kN)	70	53
第一层额定绳速 The 1st Layer Rope speed(m/min)	26	26
总 排 量 Total Displacement (ml/r)	5632.1	5632.1
系统压力 System Rated Pressure(Bar)	190	150
供油流量 Pump Supply Oil Flow(L/min)	150	
绳索直径 Rope Diameter(mm)	14	
容 绳 量 Drum Capacity(m)	185	
液压马达型号 Hydraulic Motor Model	IAM80	
减速器型号 Gearbox Model(Ratio)	IGC36W3 B70 IAM80 (i=70.173)	
马达制动扭矩 Static brake torque of motor (N·m)	212	
卷筒制动扭矩 Static brake torque of drum (N·m)	14600	

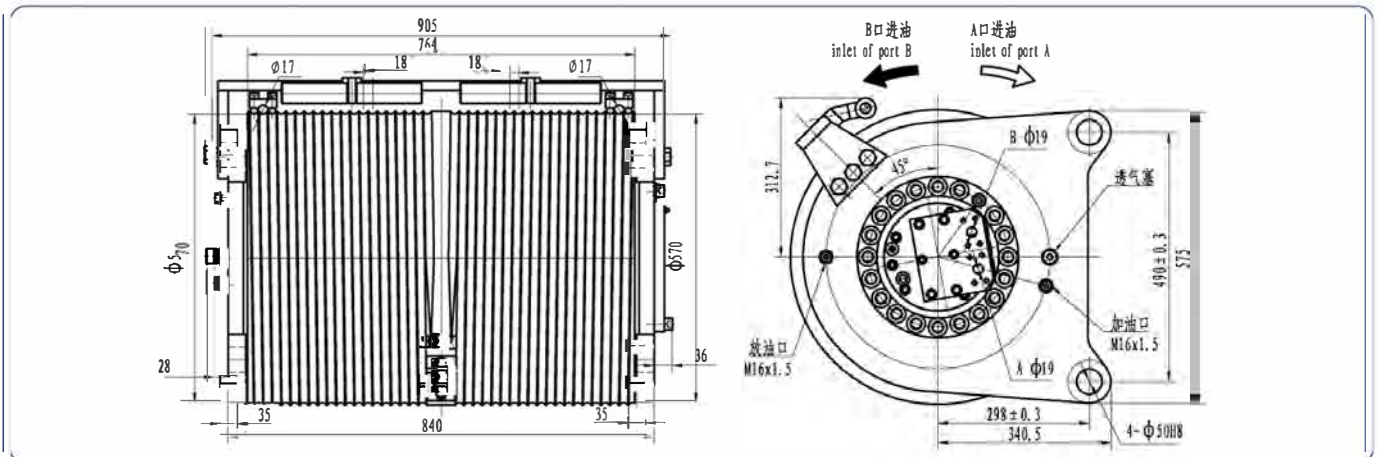
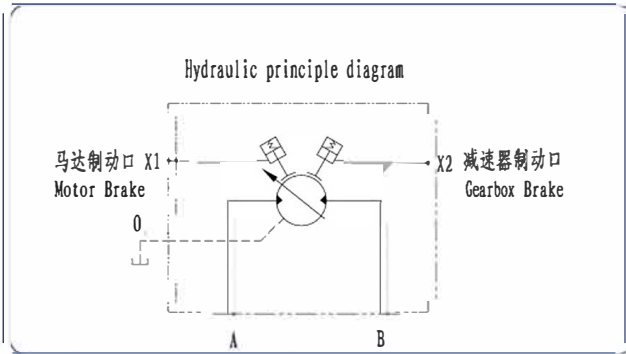


● IYJ344-ZZ



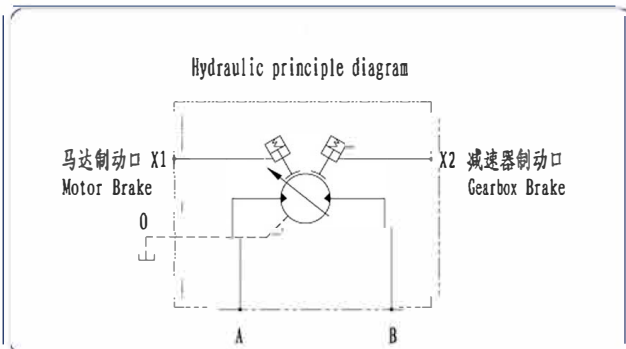
Main Specification

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	1	1
第一层额定拉力 The 1st Layer Line pull (kN)	45x2	22.5x2
第一层额定绳速 The 1st Layer Rope speed (m/min)	11.8	11.8
总 排 量 Total Displacement (ml/r)	9942	9942
系统压力 System Rated Pressure (Bar)	220	110
供油流量 Pump Supply Oil Flow (L/min)	80	
绳索直径 Rope Diameter (mm)	15	
容 绳 量 Drum Capacity (m)	26.3x2	
液压马达型号 Hydraulic Motor Model	IM39 (q=39.1ml/r)	
减速器型号 Gearbox Model (Ratio)	IGC36W3 (i=254.3)	
马达制动扭矩 Static brake torque of motor (N·m)	212	
卷筒制动扭矩 Static brake torque of drum (N·m)	40000	

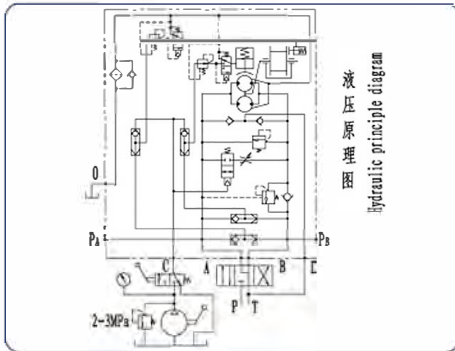
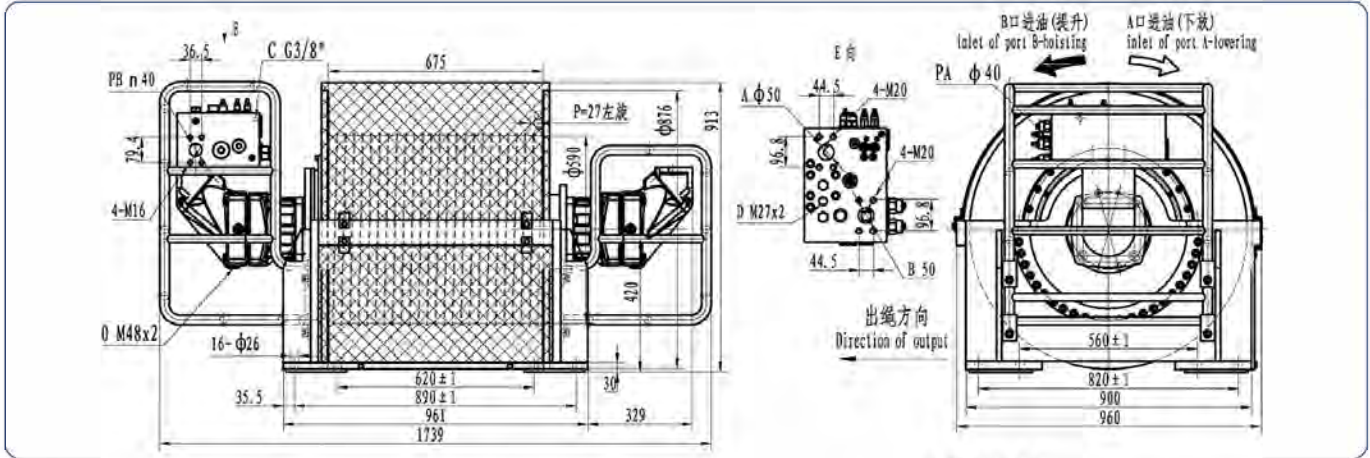


主要技术性能参数 Main Specification

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	1	1
第一层额定拉力 The 1st Layer Line pull (kN)	57.5x2	28.75x2
第一层额定绳速 The 1st Layer Rope speed (m/min)	12	12
总 排 量 Total Displacement (ml/r)	12740	12740
系统压力 System Rated Pressure (Bar)	230	115
供油流量 Pump Supply Oil Flow (L/min)	92	
绳索直径 Rope Diameter (mm)	17	
容 绳 量 Drum Capacity (m)	30x2	
液压马达型号 Hydraulic Motor Model	IMS2	
减速器型号 Gearbox Model (Ratio)	IGC60W3 (i=245)	
马达制动扭矩 Static brake torque of motor (N·m)	212	
卷筒制动扭矩 Static brake torque of drum (N·m)	65000	

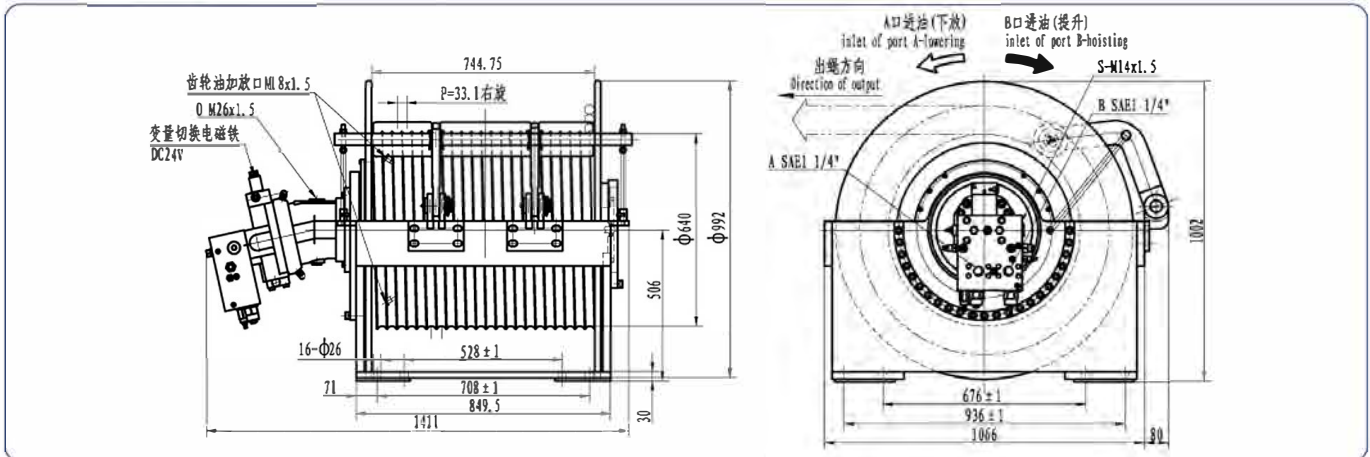


● IYJ5.55.5-ZZ



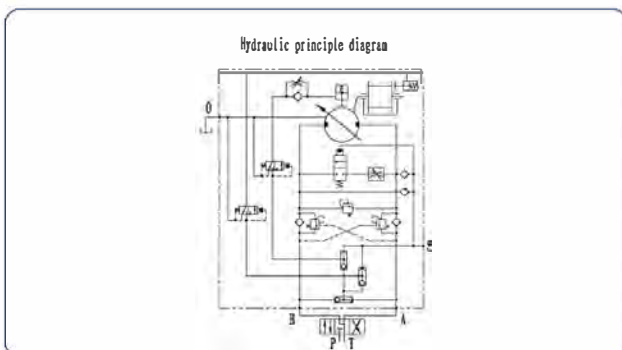
主要技术性能参数 Main Specification

工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	3	3
第三层额定拉力 The 3rd Layer Line pull (kN)	130	20
第三层额定绳速 The 3rd Layer Rope speed (m/min)	120	120
总排量 Total Displacement (ml/r)	13960	5632.1
系统压力 System Rated Pressure (Bar)	280	60
供油流量 Pump Supply Oil Flow (L/min)	790	
绳索直径 Rope Diameter (mm)	26	
容绳量 Drum Capacity (m)	150	
液压马达型号 Hydraulic Motor Model	F12-250x2	
减速器型号 Gearbox Model (Ratio)	IGC110W2-827.93 (i=27.93)	
马达制动扭矩 Static brake torque of motor (N·m)	2778	
卷筒制动扭矩 Static brake torque of drum (N·m)	90400	

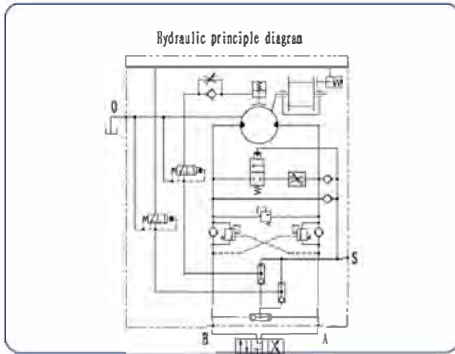
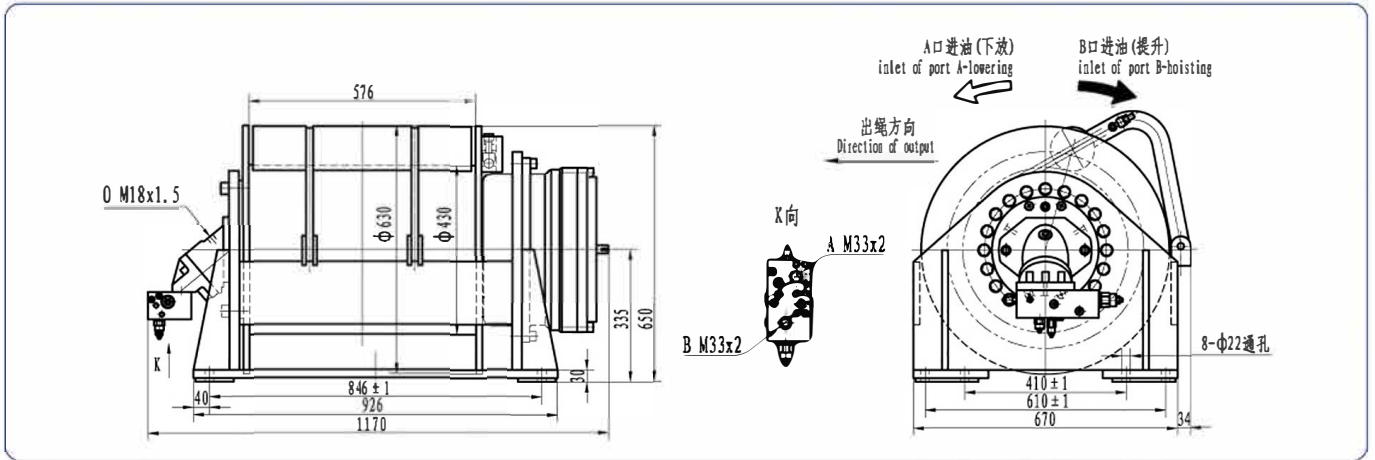


Main Specification

工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	3	3
第三层额定拉力 The 3rd Layer Line pull (kN)	127	30
第三层额定绳速 The 3rd Layer Rope speed (m/min)	39	78
总排量 Total Displacement (ml/r)	18368	12054
系统压力 System Rated Pressure (Bar)	240	100
供油流量 Pump Supply Oil Flow (L/min)	318	
绳索直径 Rope Diameter (mm)	32	
容绳量 Drum Capacity (m)	155	
液压马达型号 Hydraulic Motor Model	A6VM160E2Z/63W1050VAB080	
减速器型号 Gearbox Model (Ratio)	IGC110W3-BB115 (i=114.8)	
马达制动扭矩 Static brake torque of motor (N·m)	900	
卷筒制动扭矩 Static brake torque of drum (N·m)	82000	

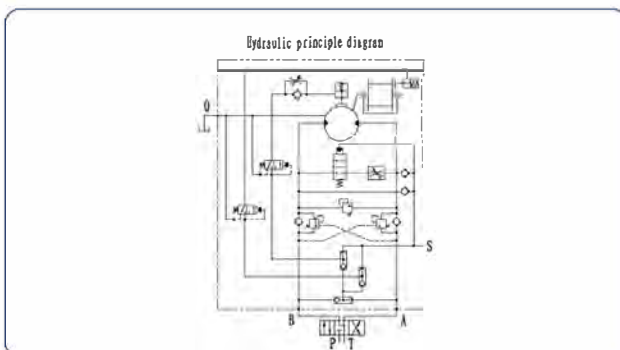
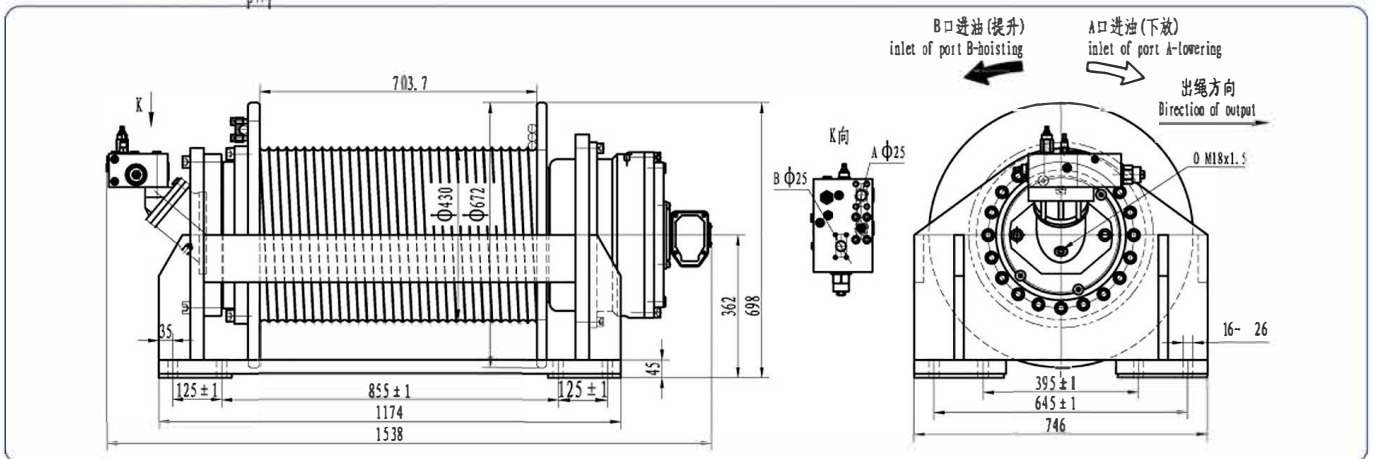


● IYJ344-ZZ



Main Specification

工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	2	2
第二层额定拉力 The 2nd Layer Line pull(kN)	50	25
第二层额定绳速 The 2nd Layer Rope speed(m/min)	0-30	0-30
总排量 Total Displacement (ml/r)	5600	5600
系统压力 System Rated Pressure(Bar)	200	100
供油流量 Pump Supply Oil Flow(L/min)	120	
绳索直径 Rope Diameter(mm)	22	
容绳量 Drum Capacity(m)	65	
液压马达型号 Hydraulic Motor Model	A2FE56/6.1WVAL10	
减速器型号 Gearbox Model(Ratio)	1GC36W3(i=100)	
马达制动扭矩 Static brake torque of motor(N·m)	740	
卷筒制动扭矩 Static brake torque of drum(N·m)	30000	



Main Specification

工况 Working Condition	载货 Carry Cargo	载人 Carry People
层数 Rope Layer	3	3
第三层额定拉力 The 3rd Layer Line pull(kN)	75	20
第一层额定绳速 The 1st Layer Rope speed(m/min)	0-40	0-40
总排量 Total Displacement (ml/r)	7785	7785
系统压力 System Rated Pressure(Bar)	230	70
供油流量 Pump Supply Oil Flow(L/min)	240	
绳索直径 Rope Diameter(mm)	22	
容绳量 Drum Capacity(m)	140	
液压马达型号 Hydraulic Motor Model	A2FE90/6.1WVAL10	
减速器型号 Gearbox Model(Ratio)	1GC60W3(i=86.5)	
马达制动扭矩 Static brake torque of motor(N·m)	600	
卷筒制动扭矩 Static brake torque of drum(N·m)	30000	

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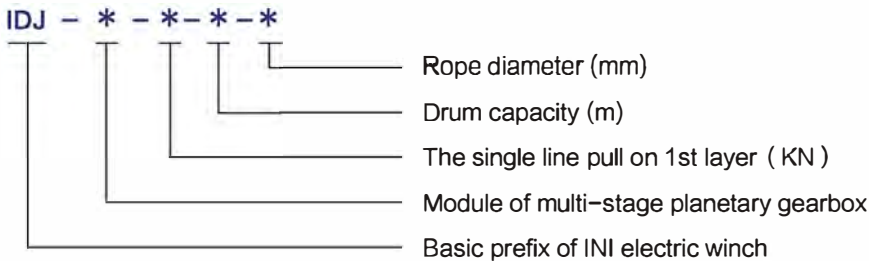


● IDJ Series Electric Winch

1. Brief Introduction

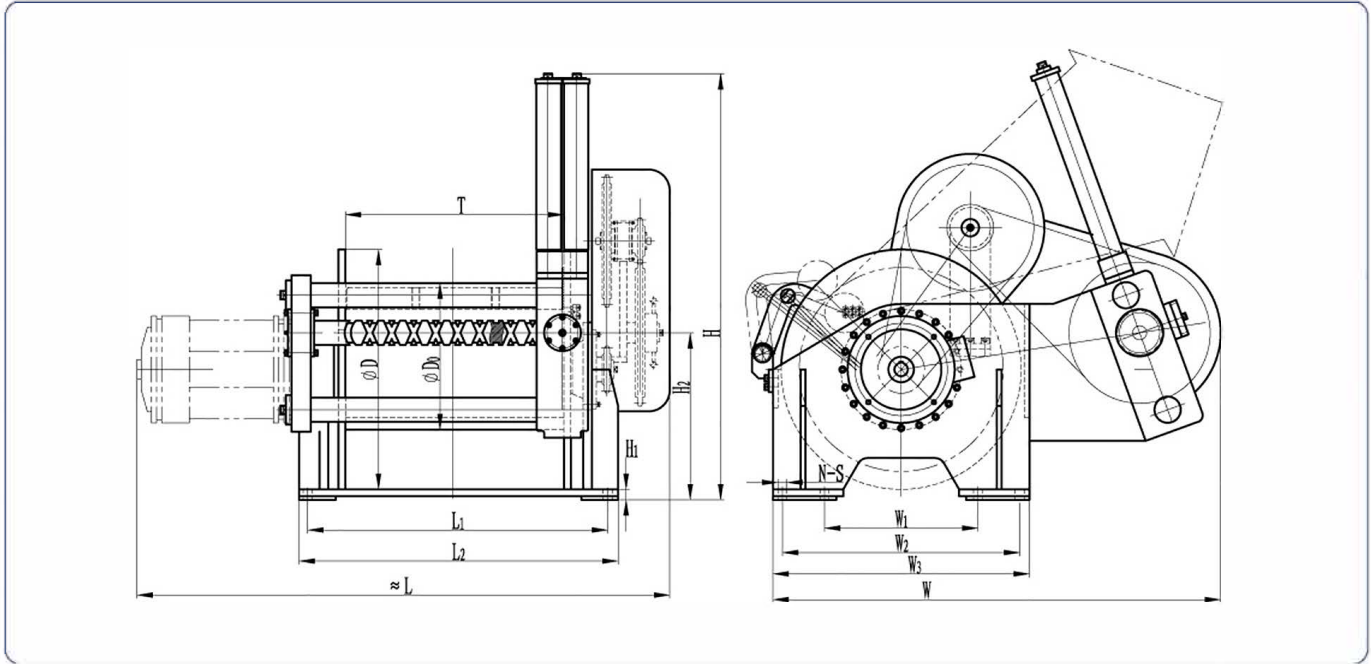
IDJ series electric winch consist of electromotor with brake, planetary gearbox, drum, and frame. The customer only equip electric box for winch performance. The series feature compact design, simply and rugged construction, high reliability, and good economy. For the working conditions with large lifting height, large loading and unloading capacity and frequent work, the electric winch has good speed regulation performance. It can make the air hook drop rapidly, and can be adjusted to a smaller speed for materials that are sensitive to installation and positioning to make it run smoothly. Therefore they have been widely applied in ship and deck machinery, construction machinery.

2. Model Options



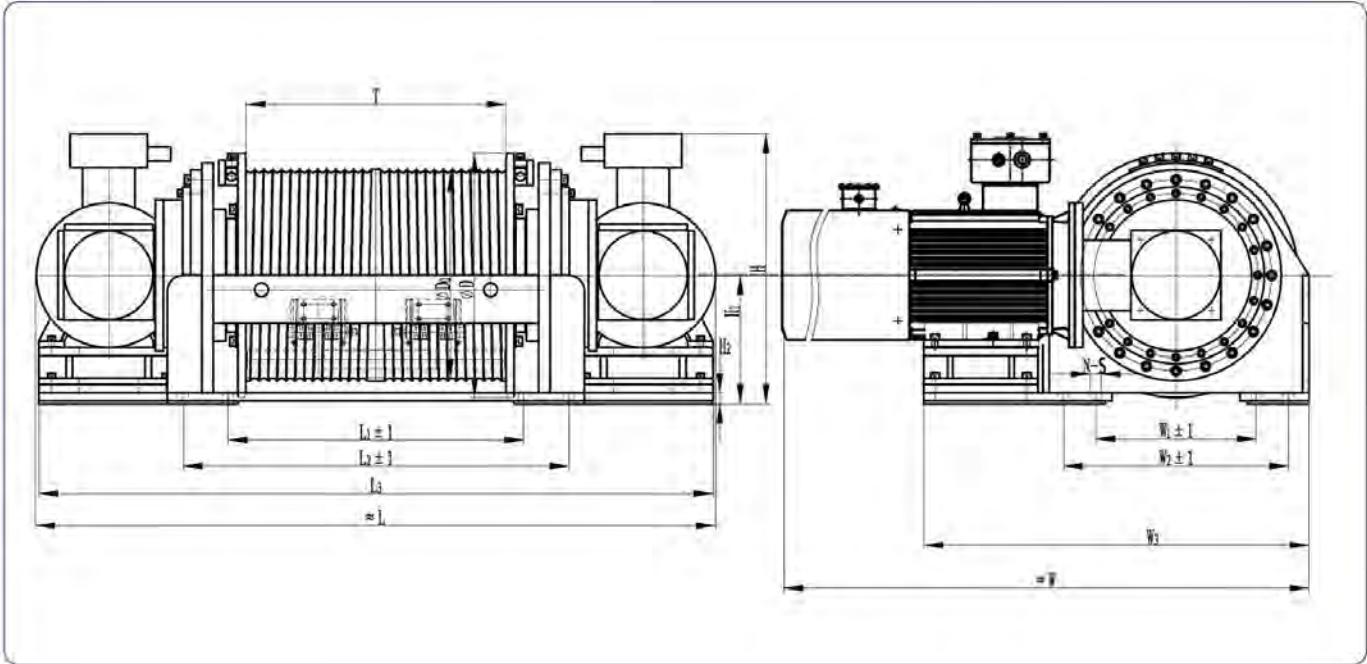
3. Options Example

IDJ23-10-30-14 represents that the electric winch adopts two stages planetary gearbox, the modules of gearbox are 2.5 and 3 respectively, the single line pull on 1st layer is 10kN, the drum capacity is 30m, and the rope diameter is 14mm.



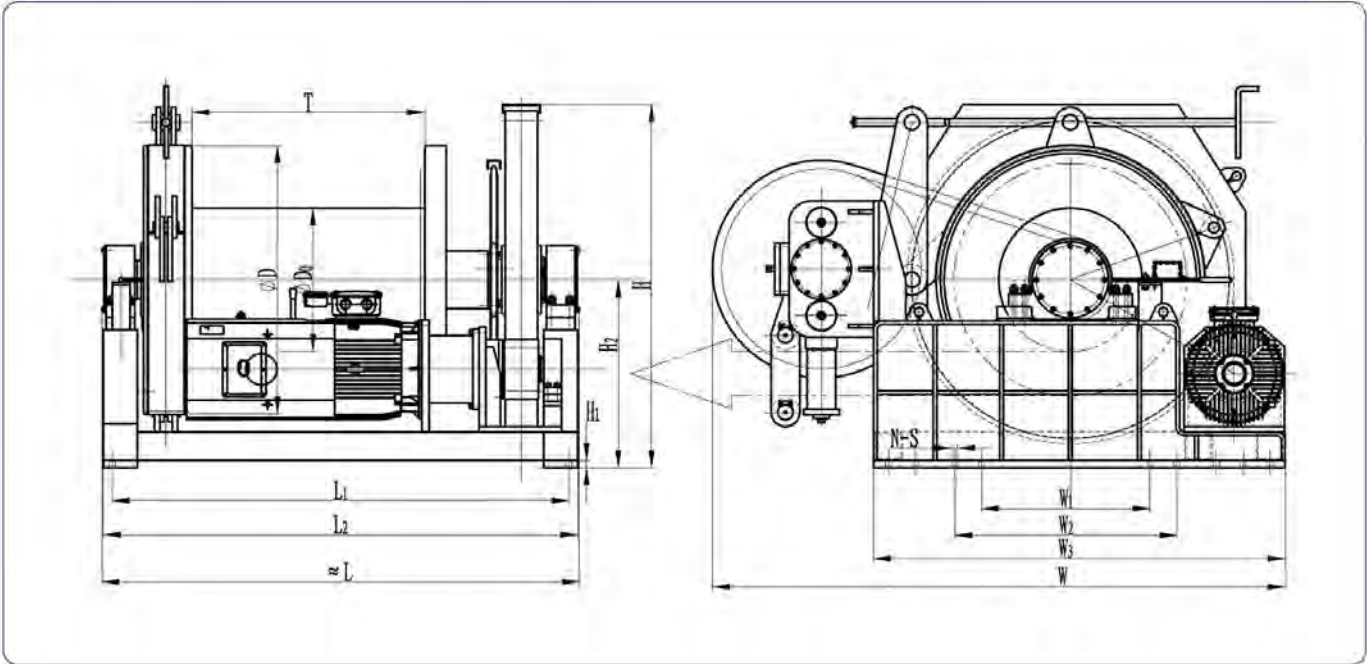
Note: 1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

Main specification													Overall dimensions													
系列代号 Serial code	型号 Model	第一层 the 1st layer		钢丝绳 直径 Diameter of rope (mm)	层数 layer	容量 Capacity of rope (t)	电机型号 Model of electromotor	电机 Parameter of electromotor			电机功率 Power (KW)	D ₀	D	T	L ₁	L ₂	L	W ₁	W ₂	W ₃	W	H ₁	H ₂	H	N	S
		拉力 Pull (kN)	绳速 Speed (m/min)					电压 Volt (V)	频率 Frequency (Hz)	总 传动比 Ratio																
IDJ23	IDJ023-2-400-17	2.2	27	17	8	400	YZ-112S-6-II	380	50	63	1.1	500	840	567	-	997	1448	-	-	930	1100	114	444	1920	-	-
IDJ233	IDJ233-10-3000-6-Z	16.5	11.8	28	4	500	IDGF-132S-4	440	60	163.5	5.5	345	688	626	860	914	1116	440	680	735	1343	30	374	1222	8	Φ26



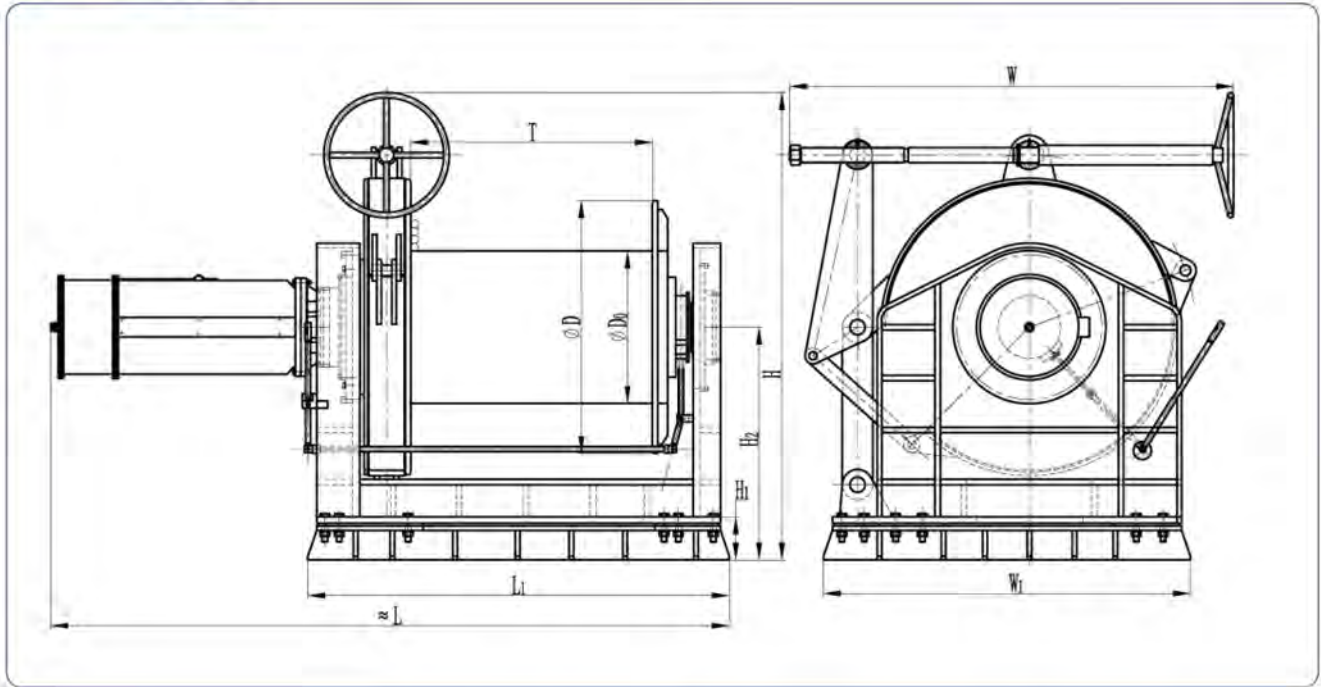
Note: 1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

Main specification											Overall dimensions																
系列代号 Serial code	型号 Model	第一层 the 1st layer		钢丝绳 直径 Diameter of rope (mm)	层数 Capacity of rope (m)	容量 Capacity of rope (m)	电机型号 Model of electromotor	电机 Parameter of electromotor		总 传动比 Ratio	电机功率 Power (KW)	D ₀	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W	H ₂	H ₁	H	N	S
		电压 Volt (V)	频率 Frequency (Hz)																								
IDJ544	IDJ544-45-180-16	45	35	16	4	1 8 0	Y2225S-4-II-B35	440	60	67	37	500	840	413	-	614	672	1226	510	750	900	2062	30	455	875	8	φ 26
	IDJ544-55-75-22	55	20	22	3	75	Y2200M-6-H-B5	440	60	82	22	440	700	423	-	657	727	1175	390	570	630	1888	40	370	722	8	φ 24
	IDJ544-63-93-24	63/73	24.5/11	24	3	93	Y2250M-6/12-II-B35	440	60	67	16/30	440	704	487.5	-	712	782	1283	390	570	630	2038	40	370	722	8	φ 24
IDJ33.75	IDJ33.75-83-100-26	83	17	26	4	1 0 0	Y225-6-H-B35	440	60	113	30	500	840	413	-	614	672	1226	510	750	900	2062	30	455	875	8	φ 26
IDJ355	IDJ355-200-58-26	200	18.8	26	1	5 8	YB3-225S-4-H	380	50	185.4	37	640	760	784	920	1200	1298	2098	500	700	828	1865	35	400	840	16	φ 32



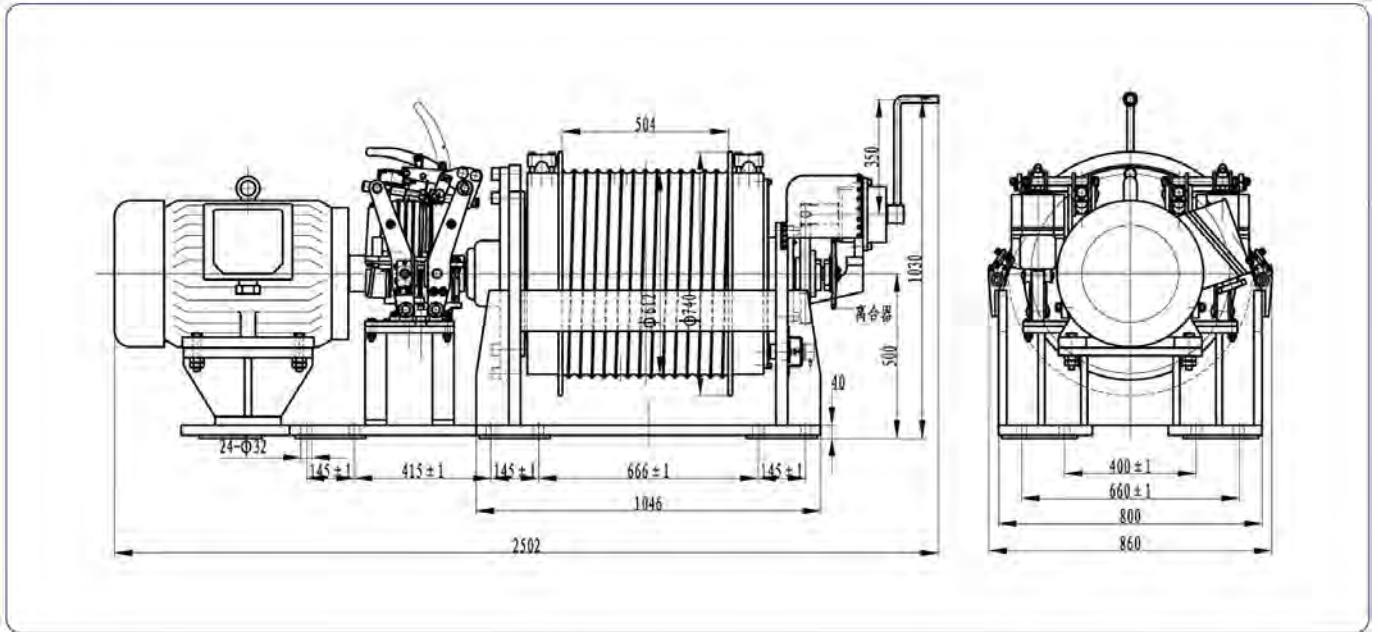
Note: 1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
 2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

Main specification											Overall dimensions															
系列代号 Serial code	型号 Model	第一层 the 1st layer		钢丝绳 直径 mm of rope	层数 layer of rope	容量 capacity of rope (m)	电机型号 Model of electromotor	电 制 Parameter of electromotor		总 传动比 Ratio	电机功率 Power (KW)	D ₀	D	T	L ₁	L ₂	L	W ₁	W ₂	W ₃	W	H ₁	H ₂	H	N	S
		拉力 Pull (kN)	绳速 Speed (m/s)					电压 Volt (V)	频率 Frequency (Hz)																	
IDJ344	IDJ344-50-200-28-D	63	12/5.7/2.75	28	4	200	JZ2-H42-4/8/16	380	50	228	11/11/7.5	600	965	630	1050	1100	1864	800	980	1135	1325	30	530	1227	10	Φ26
IDJK34514	IDJK34514-150-400-50-LDB	110/220	8/4	50	5	400	W21-250S/M	380	50	672	37	800	1500	1300	2550	2650	2668	940	1240	2300	3200	40	1050	2030	18	Φ32



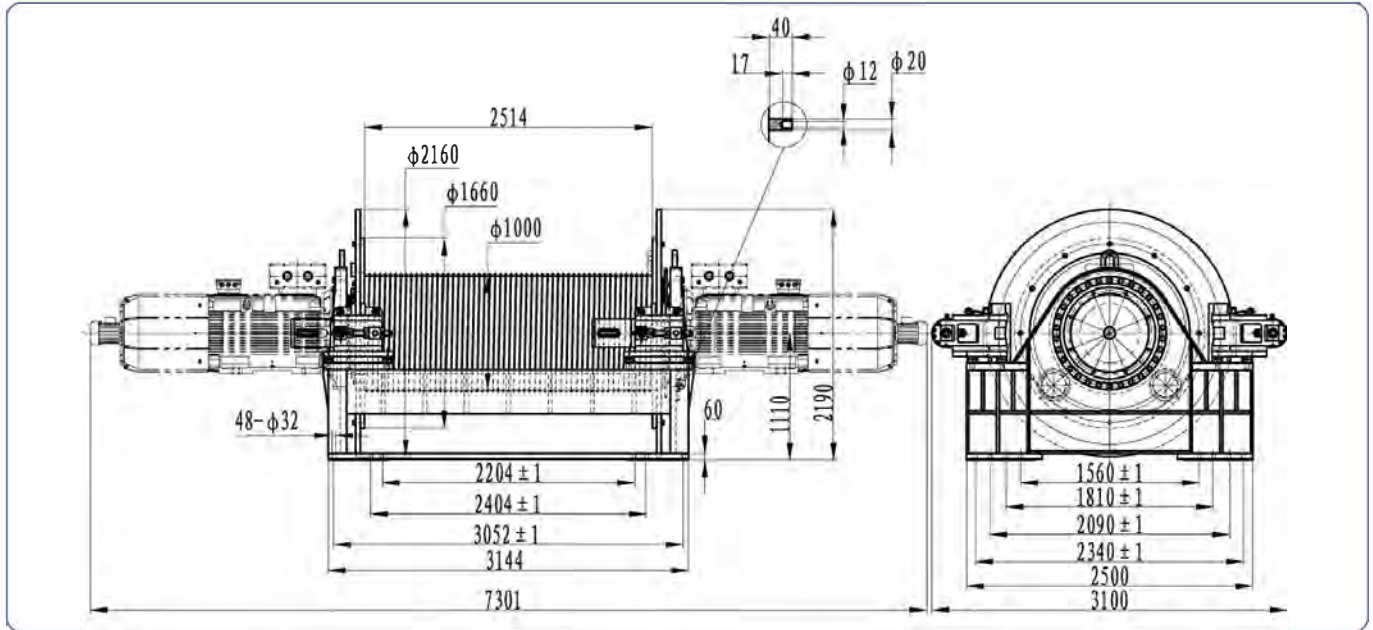
- Note:** 1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

Main specification											Overall dimensions										
系列代号 Serial code	型号 Model	第一层 the 1st layer		钢丝绳 直径 of rope (mm)	层数 layers of rope	容量 (Capacity of rope (t))	电机型号 Model of electromotor	电机 Parameter of electromotor		总 传动比 Ratio	电机功率 Power (kW)	D ₀	D	T	L ₁	L	W ₁	W	H ₁	H ₂	H
		拉力 Pull (kN)	绳速 Speed (m/min)					电压 V ₀₁ (V)	频率 Frequency (Hz)												
IDJ234	IDJ234-40-500-24	40	8	24	8	500	YZ132N2-4-H	380	50	198	7.5	410	914	800	1378	2053	1090	1260	120	620	1275
IDJ35.55.5	IDJ35.55.5-150-500-28-D	150	15	28	4	500	YVF228QS-6-H-B35	415	50	192.8	50	900	1236	1160	1755	2831	1465	1830	180	945	1920
IDJ479	IDJ479-120-350-43	120/240/360	6.4/3.2/1.6	43	4	350	JZ2-H-72-A/8/16	380	50	198	60/60/45	850	1410	1350	2355	3790	2050	2480	240	1300	2610



Note: 1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

型号 Model	第一层 the 1st layer		钢丝绳 直径 Diameter of rope (mm)	层 数 layer	容绳量 Capacity of rope (m)	电机型号 Model of electromotor	电 制 Parameter of electromotor		减速度 传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	频率 Frequency (Hz)		
IDJ35.55.5-300-18-34	300	4.5	34	1	18	Y225M-6-H-B3	380	50	439.8	30



- Note:**
1. Drum capacity indicates theoretic value. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
 2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.

型号 Model	第一层 the 1st layer		钢丝绳 直径 Diameter of rope (mm)	层数 layer	容绳量 Capacity of rope (m)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器 传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Voli (V)	频率 Frequency (Hz)		
IDJ699-600-1000-44	600	2-60	44	5	1000	SXLEE355ML. . S-IM2001	440	60	88.3116	350x2

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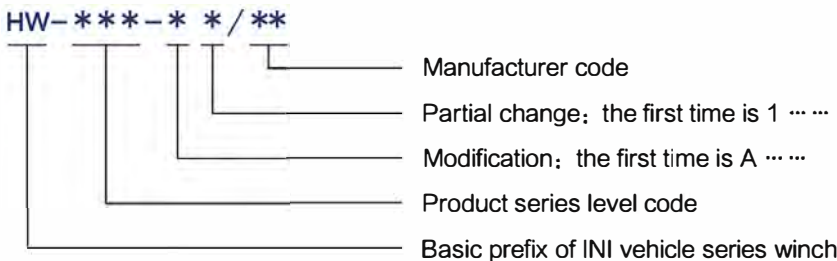
● HW Series Winch for Vehicle

1. Brief introduction

HW series winch for vehicle are patent products of our company. It is mainly composed of axial plunger motor, oil tray or oil valve block, hydraulic normally closed multi-chip brake, multi-stage planetary reducer, normally closed pneumatic clutch, flame, drum, support shaft, etc. The oil tray integrates hydraulic balance valve, overload protection valve, shuttle valve and load unloading valve, etc. Due to fit with valve block, not only simplified the design of hydraulic system but also improved the reliability of drives. In addition, it also has the functions of measuring the tension, speed, capability of drum, adjustable speed, manual rope with clutch, etc. It has the advantages of compact structure, small size, light weight, high power density, beautiful appearance, etc.

The tension of this series of products is 5kN ~ 500kN, with complete specifications and diverse varieties. Therefore, the series have been widely applied to hoisting salvage vehicles, cross country vehicle, military heavy truck, bulldozer. It can be used to rescue various vehicles damaged or involved in mud and also used to pull heavy objects and to save self. HW series winch for vehicle have been well sold in China, it has also been recognized by major domestic special vehicle manufacturers.

2. Model options

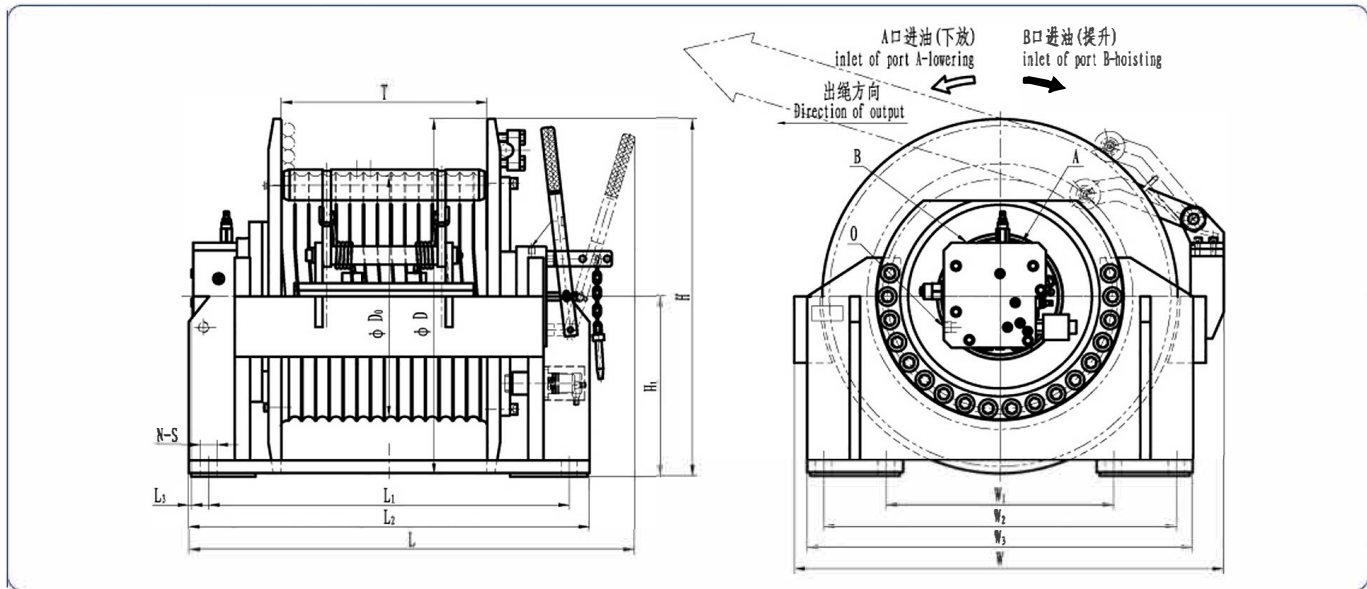


3. Options example

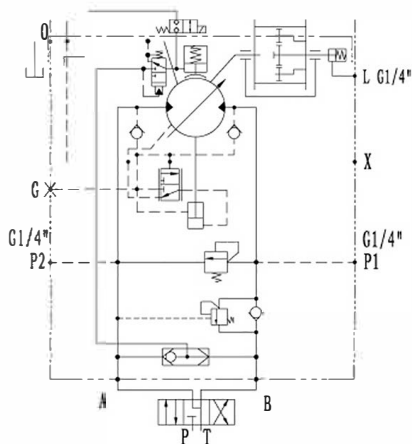
HW-150A/INI,HW represents series winch for vehicle, 150 represents the rated line pull on first layer is 150kN, A represents the first time partial change series winch for vehicle, INI represents the manufacturer is INI HYDRAULIC CO.,LTD.

4. Parameter description

- a. Total displacement represents the capacity of oil supply per revolution.
- b. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 85%–94%.
- c. Drum capacity is theoretical drum capacity. The practical available capacity of rope should subtract the retained 3m wire in case of rope headis out of hand.
- d. This winch can't be used to carry people.



Hydraulic principle diagram



Note:

1. Clutch air pressure control, control pressure $5\text{bar} < P_1 < 8.5\text{bar}$;
2. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir;
3. The winch is not designed for operation involving lifting or moving personnel;
4. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working;
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

系列代号 Serial code	第一层拉力				第一层绳速		总排量		工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速机 传动比 Gearbox ratio	外形尺寸及油口规格															
	The 1st Layer Pull		The 1st layer Rope Speed		Displacement		Overall dimensions and oil ports specifications																							
	重载 Heavy load (kN)	轻载 Slight load (kN)	重载 Heavy load (m/min)	轻载 Slight load (m/min)	重载 Heavy load (ml/r)	轻载 Slight load (ml/r)	Do	D							T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A, B	O	
HW100A	100	-	11	-	7120.7	-	21	90	16	2	45	137.2	295	386	378	636	688	5	693	217	331	433	503	200	393	8	φ26	G3/4"	G3/8"	
HW150A	150	50	10~12	23~27	12231.3	5596	17~25	115	22	4	104	139.9	370	555	431.3	670	728	31	854	340	544	605	649	282	559	8	φ26	G3/4"	G1/2"	
HW200A	200	30~50	6.2~8	17~28.5	14160	6488	17~25	110	22	4	110	162.2	370	555	431.3	670	728	131	859	340	544	605	669	297	559	8	φ29	M33x2	M18x1.5	
HW250A	250	-	7.4	16.3	22769.6	10432.8	22	120	26	4	100	260	470	695	402	473	695	39	863	486	650	755	840	411	758	16	φ22	G3/4"	G1/2"	
HW250B	250	50	7.4	24.5	23005	6880	17~20	120	26	4	105	215	470	695	402	704	783	125	908	445	691	781	841	368	715	8	φ32	M33x2	M18x1.5	
HW280A	280	70	7	25	23424	6295	22~23	120	28	4	105	146.4	470	750	441	780	840	25	840	475	715	810	879	425	800	16	φ26	G3/4"	G1/2"	
HW280B	280	70	6	13	22769.6	10432.8	15~25	97	28	4	105	260	470	750	441	780	840	146	986	416	656	750	830	380	755	16	φ26	M33x2	M27x2	
HW300A	300	50	7	27.5	23424	5856	19~26	120	28	4	96	146.4	470	750	441	733	780	184	964	440	658	750	886	380	755	8	φ32	M33x2	M26x1.5	
HW315A	315	60	6.9	25.4	26857	7530	21~25	130	28	4	105	251	470	750	441	787	856	71	942	540	680	800	869	420	795	16	φ32	M33x2	M18x1.5	
HW400A	400	100	4.5	11.5	45920	17220	20~22	126	32	4	96	287	555	835	436	742	799	201	1000	605	829	899	946	423	840	16	φ32	M33x2	M27x2	
HW450A	450	150	4.5	7	43071.6	27610	15~25	117	34	5	100	251	555	963	357	780	860	146	1006	680	940	1023	1103	492	973	24	φ33	M27x2	G1/2"	
HW500A	500	100	7.3	11.7	49249.2	31570	17~27	185	40	4	90	287	630	1030	412	885	955	237	1192	720	950	1090	1090	590	1105	16	φ32	φ30	G1/2"	



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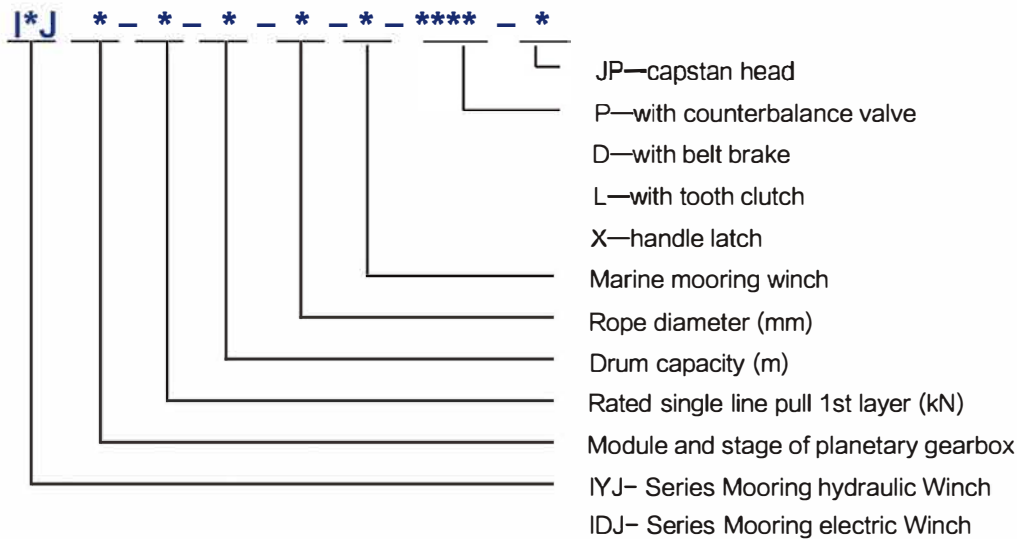


● I*J--C Mooring Winch Series

1. Brief Introduction

I*J---C series mooring winch are patent products of our company. They consist of valve blocks with function of brake and overload protection, hydraulic motor (electromotor with brake), planetary gearbox, belt brake, tooth clutch, drum, capstan head, frame and so on. Due to fit with valve block, not only simplified the design of hydraulic system but also improved the reliability of drives. And the winch series could have CT function if fitted with constant tension valve block. The series also have high startup efficiency and working efficiency. In addition, compared with traditional mooring winches, total transmission efficiency of the series is improved 6~10% and energy loss is lower because of closed planetary gearbox instead of open gear, and rolling bearing instead of tegular sliding bearing. These improvements bring to excellent features included compact design, lower noise, high economy and free daily lubrication maintenance. The series meet the national mooring winches standard of GB4446-84. Therefore they have been widely applied in domestic ship machinery and have been exported to Malaysia, Netherlands, Australia and so on.

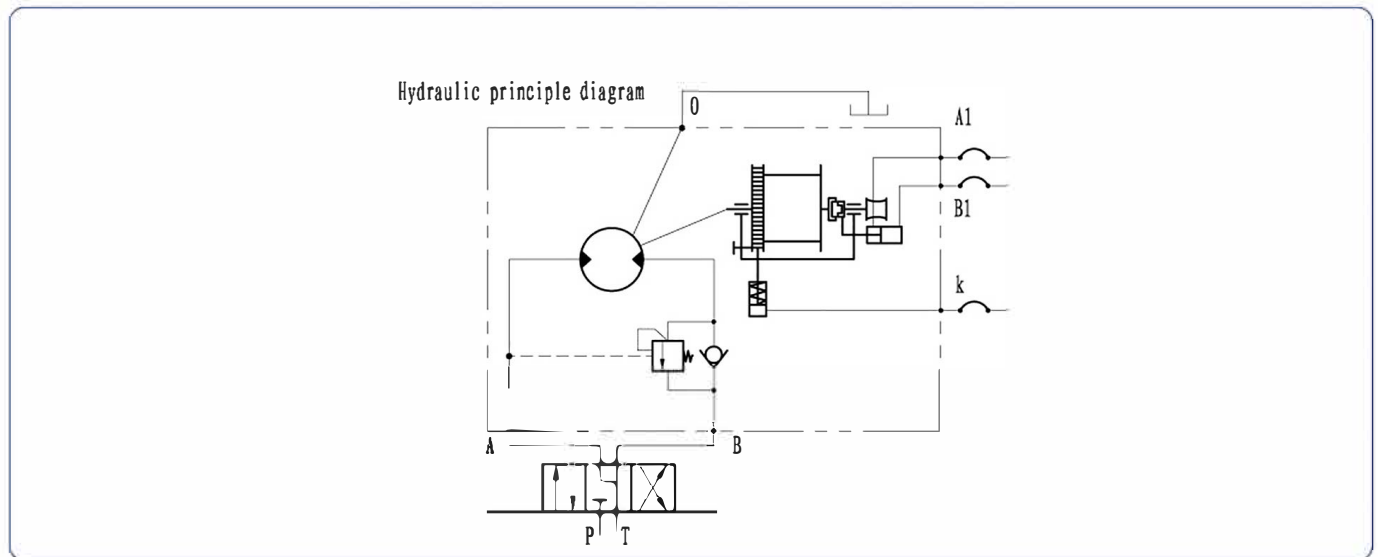
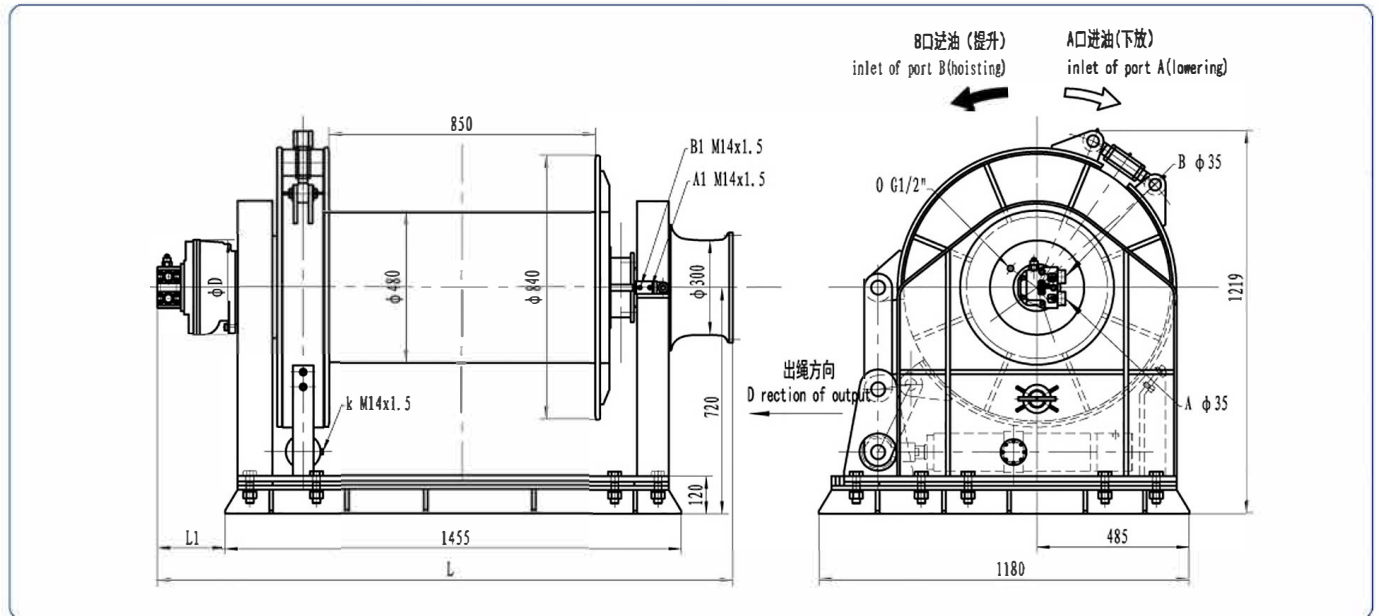
2. Model Options



3. Options Example

IYJ45-80-180-26-C-PDLX-JP represents that the module of two stages planetary gearbox are 4 and 5 respectively, rated pulling force on 1st layer is 80kN, drum capacity is 180m, rope diameter is 26mm, and the winch fits with belt brake, counterbalance valve, and tooth clutch, handle latch and capstan head.

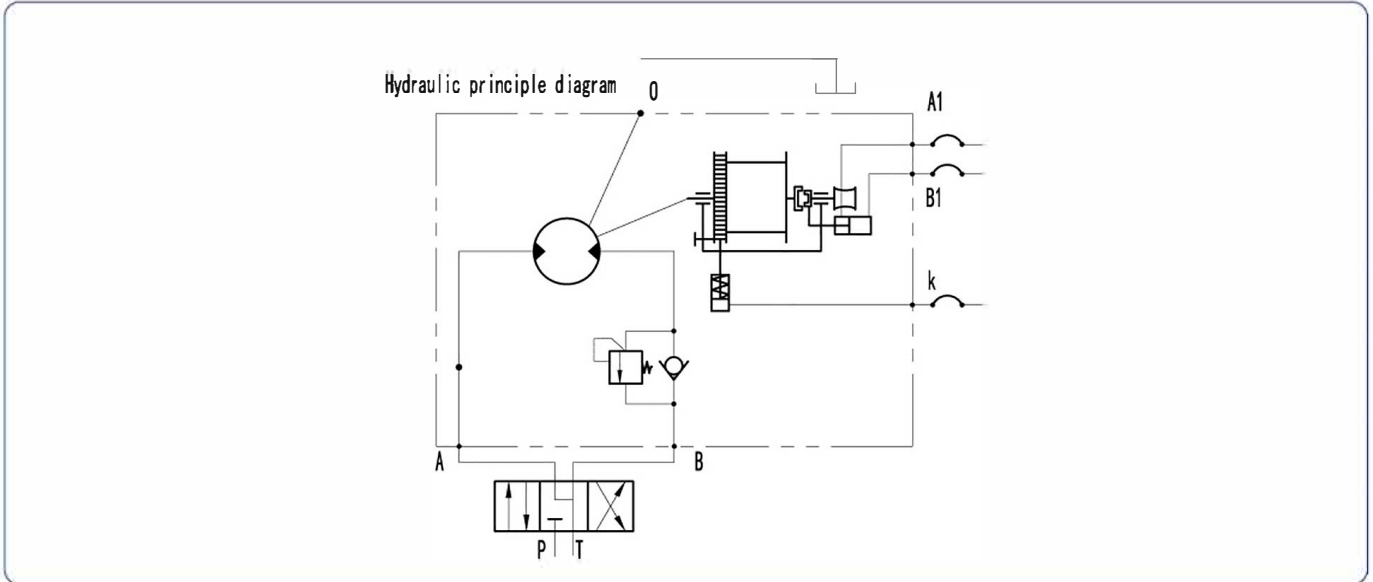
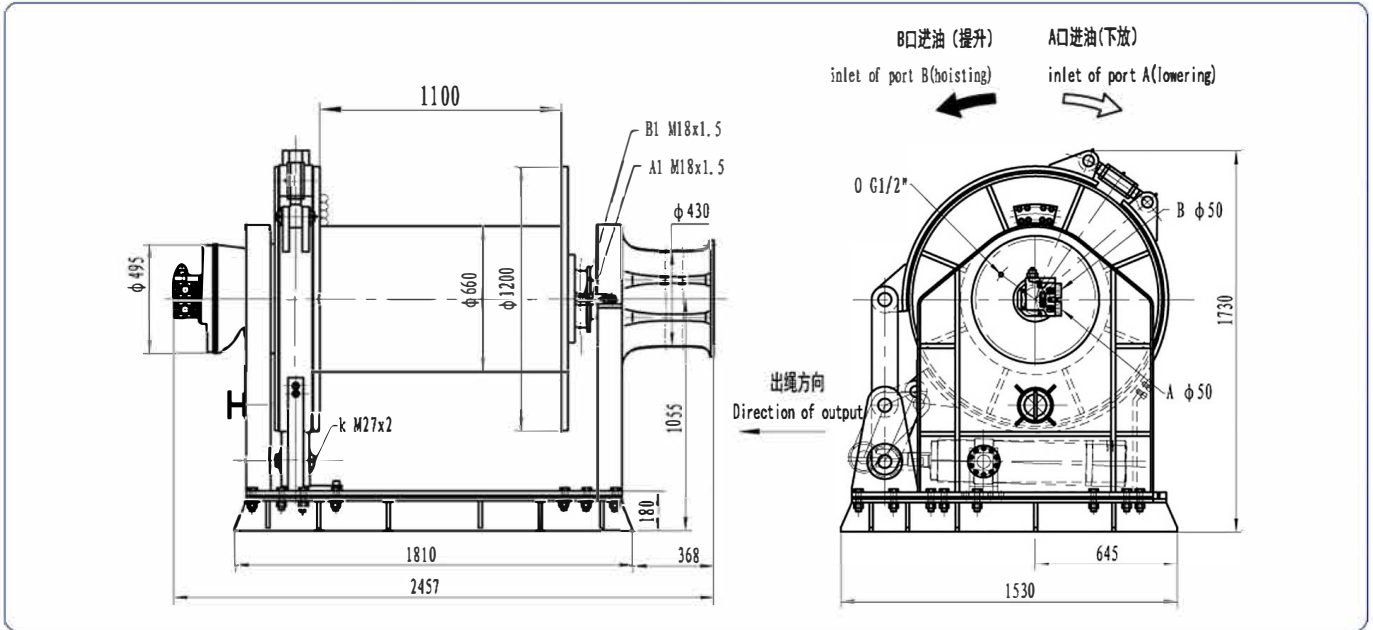
IYJ45---C Series Hydraulic Mooring Winches



型号 Model	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	D (mm)	L1 (mm)	L (mm)
IYJ45-50-280-20-C-PDLX-JP	50	150	15	30	0.5	6804	16	69	20	4	280	242	191	1810
IYJ45-65-265-22-C-PDLX-JP	65	200	15	30	0.5	8792	16	89	22	4	265	242	191	1810
IYJ45-80-250-24-C-PDLX-JP	80	240	15	30	0.5	11900	15	120	24	4	250	304	216	1835
IYJ45-100-230-26-C-PDLX-JP	100	270	15	30	0.5	15820	14.5	158	26	4	230	304	216	1835
IYJ45-125-220-28-C-PDLX-JP	125	310	15	30	0.5	17444	16	174	28	4	220	304	216	1835
IYJ45-150-200-30-C-PDLX-JP	150	420	15	30	0.5	22176	15.6	219	30	4	200	380	239	1858



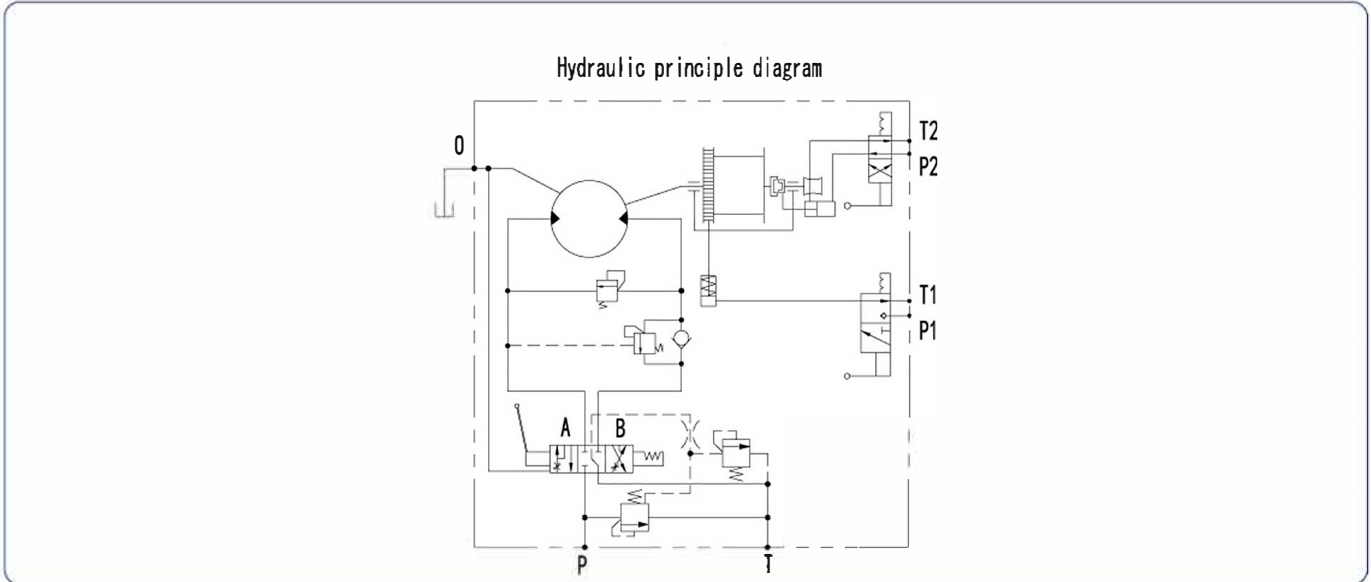
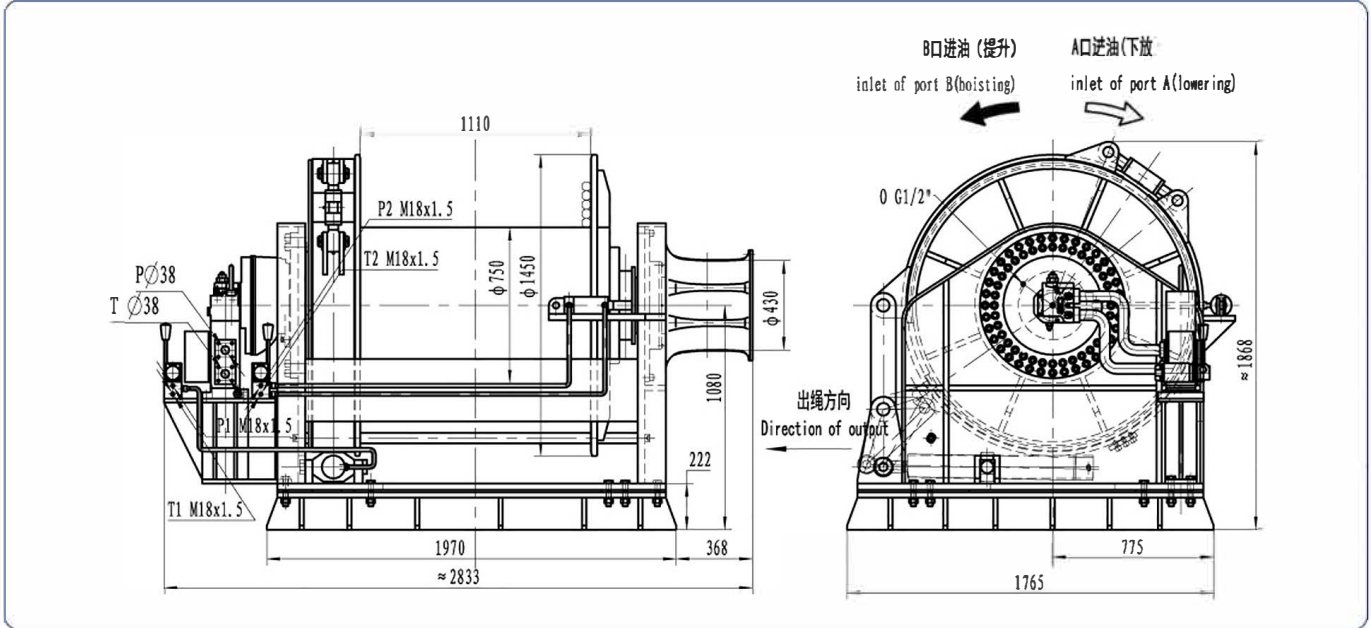
IYJ56---C Series Hydraulic Mooring Winches



型号 Model	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)
IYJ56-160-330-32-C-PDLX-JP	160	470	15	30	0.5	33180	15	252	32	4	330
IYJ56-180-310-34-C-PDLX-JP	180	520	13	30	0.5	37520	15	246	34	4	310
IYJ56-200-290-36-C-PDLX-JP	200	590	12	30	0.5	40936	15	248	36	4	290

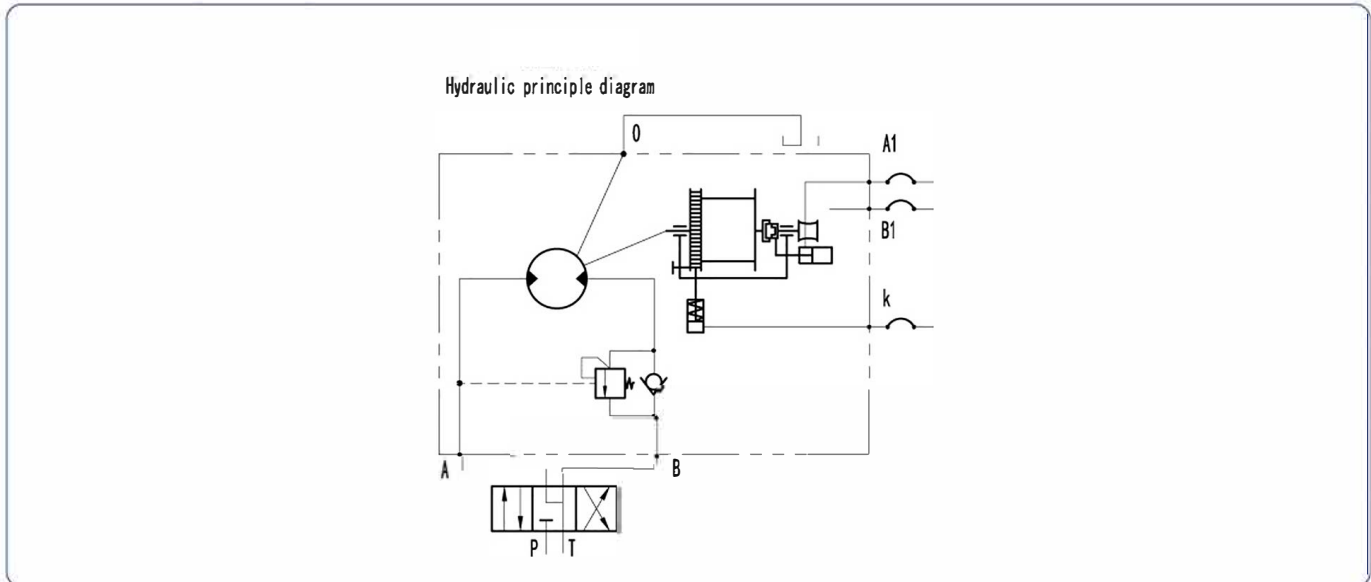
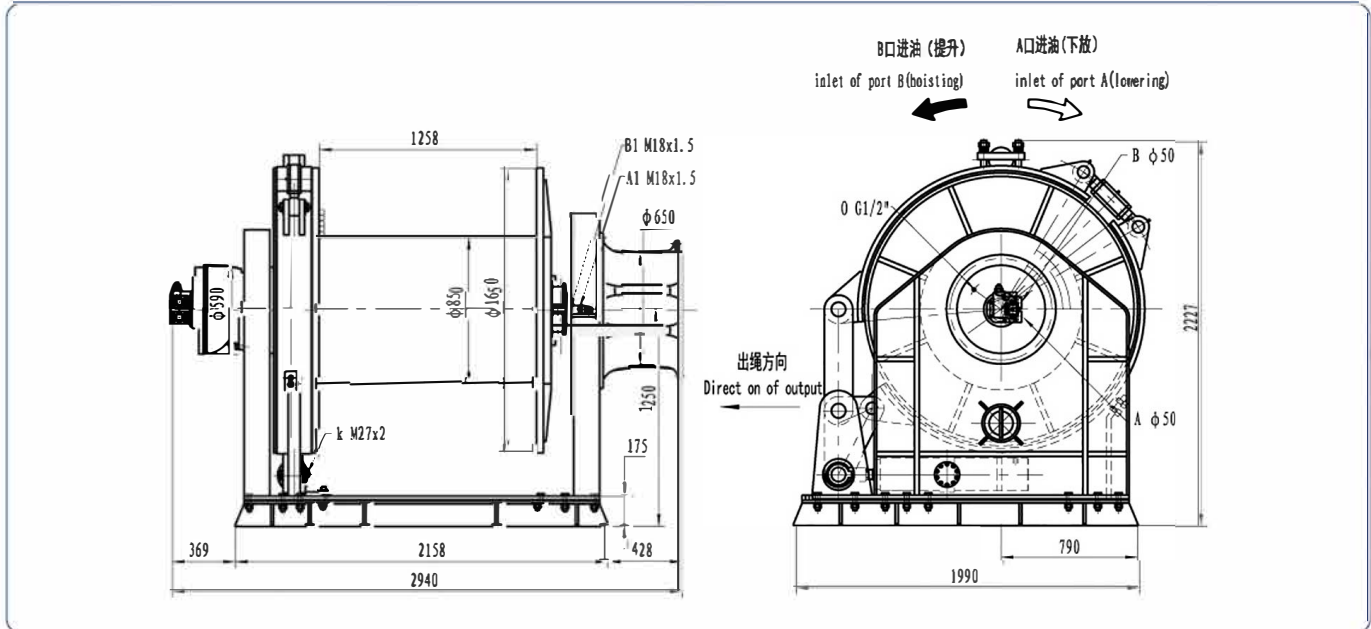


IYJ67---C Series Hydraulic Mooring Winches



型号 Model	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)
IYJ67-220-400-38-C-PDLX-JP	220	630	12	20	0.5	50848	15	273	38	5	400
IYJ67-250-390-40-C-PDLX-JP	250	720	12	20	0.5	59556	15	320	40	5	390
IYJ67-280-380-42-C-PDLX-JP	280	810	10	20	0.5	70364	14	314	42	5	380

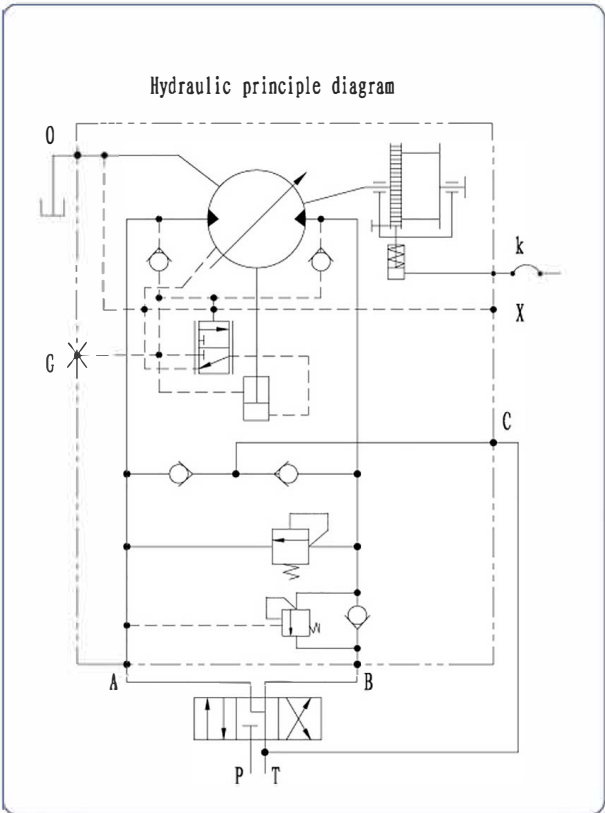
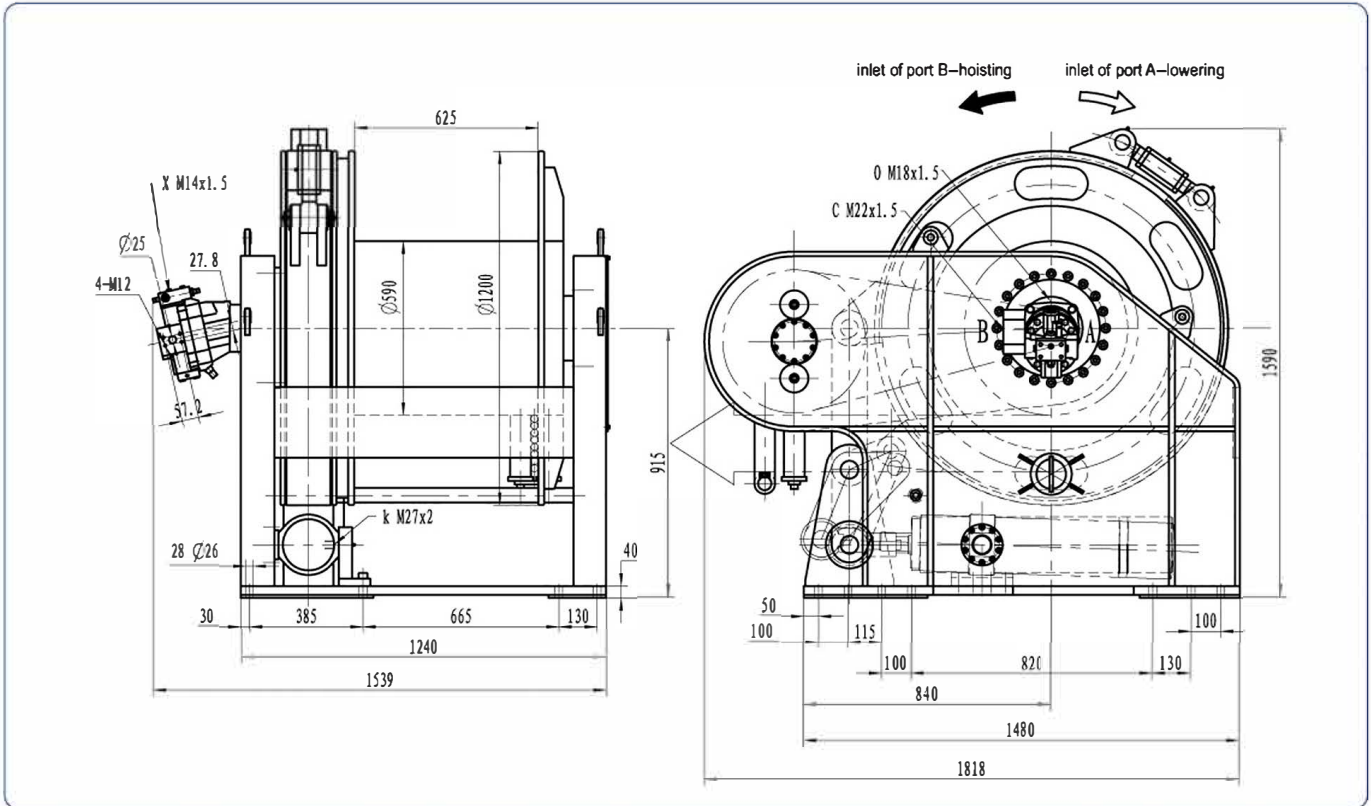
IYJ79---C Series Hydraulic Mooring Winches



型号 Model	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)
IYJ79-315-330-46-C-PDLX-JP	315	940	10	20	0.5	79442	16	313	46	4	330
IYJ79-400-310-50-C-PDLX-JP	400	1080	10	20	0.5	94556	17	370	50	4	310
IYJ79-500-300-52-C-PDLX-JP	500	1350	10	20	0.5	94556	21	370	52	4	300



IYJ34.54.5-100 / 50-500-24-C-PDX



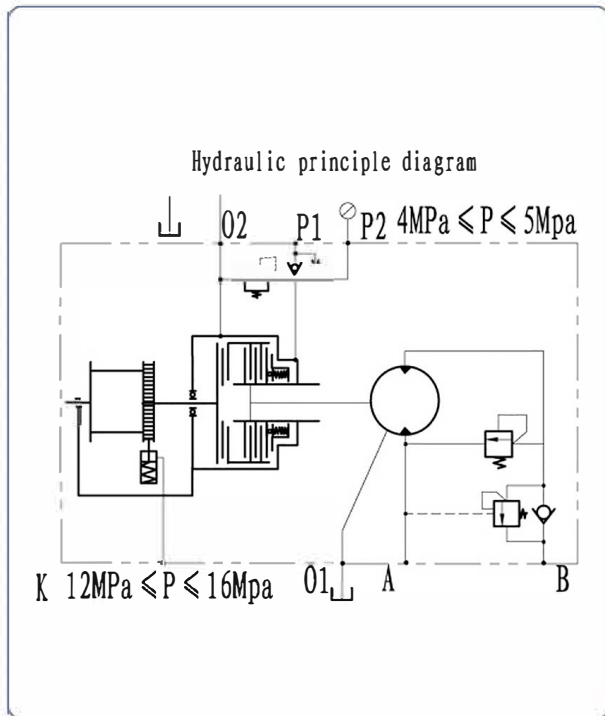
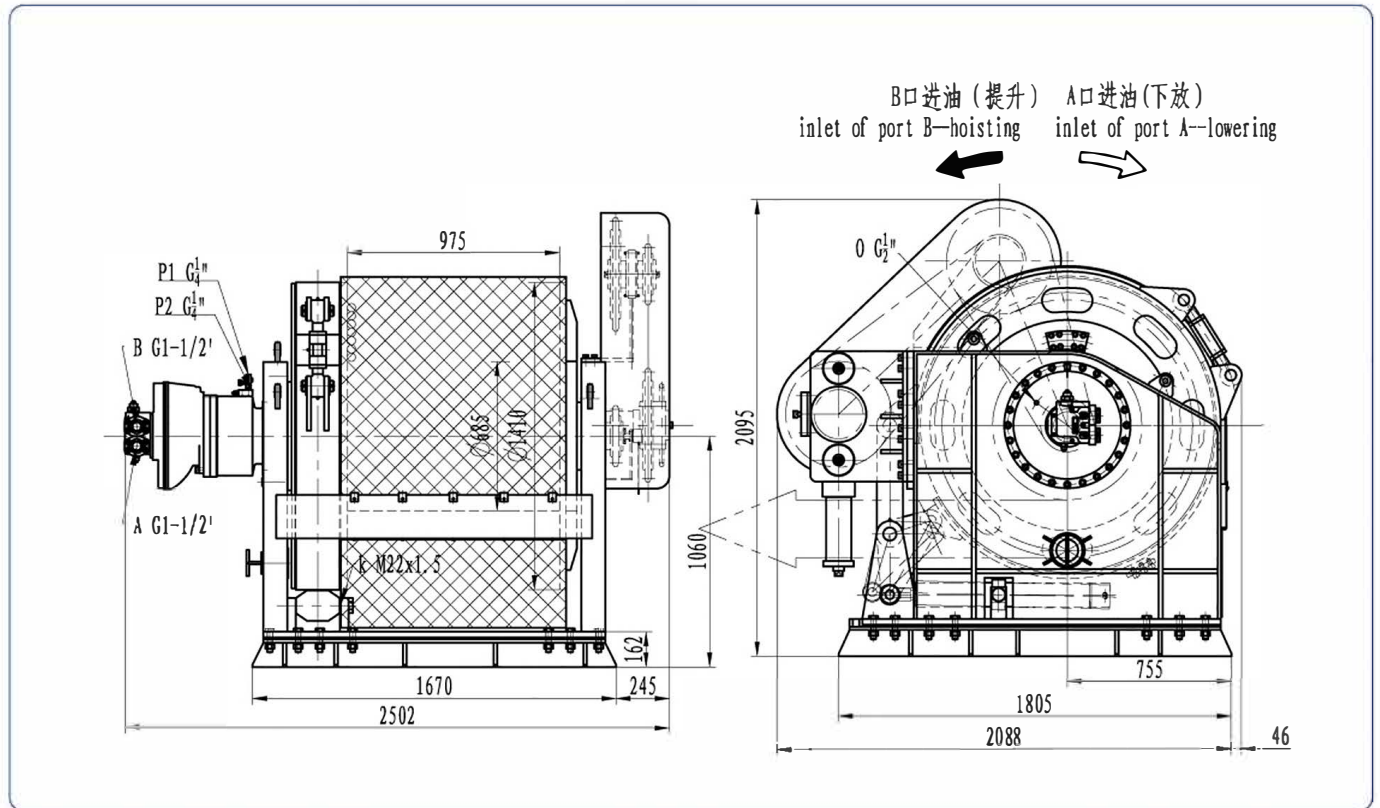
Main Specification

第一层拉力	Rated working pull 1st layer (kN)	100/50
第一层绳速	Speed 1st layer (m/min)	15/30
总排量	Drum displacement (ml/r)	10143.6/5119.2
系统压力	System rated pressure (MPa)	25
钢丝绳直径	Diameter of rope (mm)	24 ^{+0.6} ₀
层数	Number of rope layers	8
容绳量	Capability of drum (m)	490
供油流量	Pump flow (L/min)	90 (η v=0.9)
液马达型号	Hydraulic motor type	A6V107HD22FZ2-054
行星减速器型号	Planetary gearbox type	ICT60W3-B95-A6V107 (i=94.8)



info@zeiusa.com www.zeiusa.com ZEIUSA LLC

IYJ56-200-500-38-C-PDLX

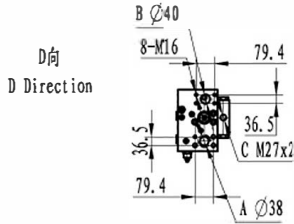
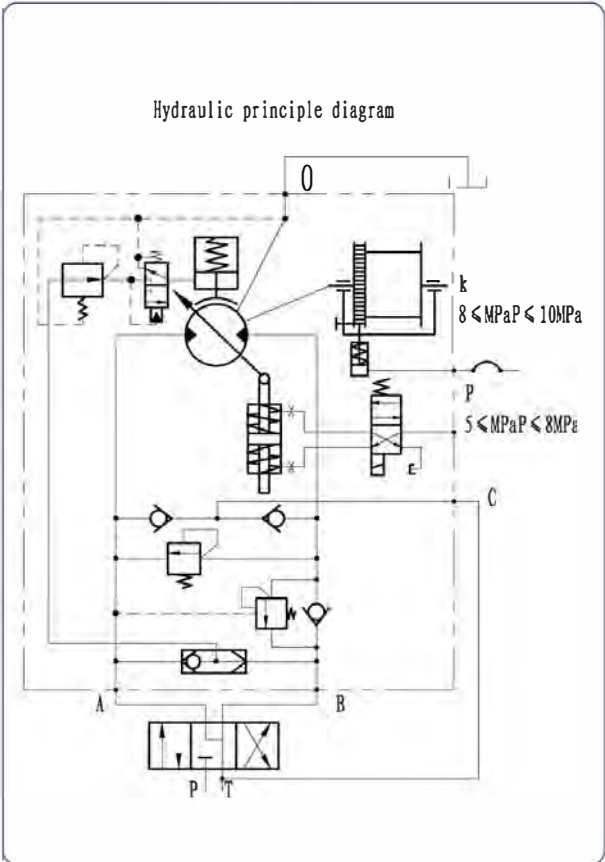
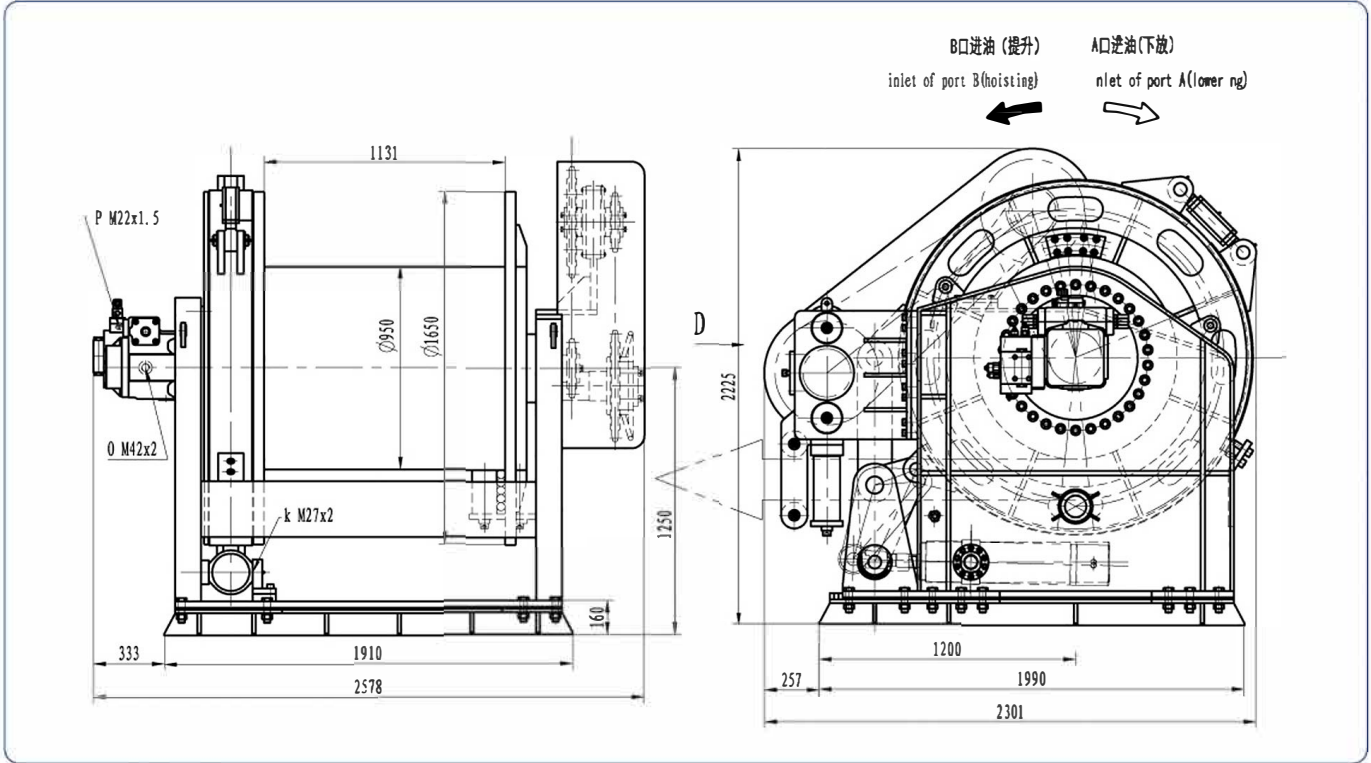


Main Specification

第一层拉力	Rated working pull 1st layer (kN)	200
支持负载	Brake support load (KN)	600
第一层绳速	Speed 1st layer (m/min)	15.6
总排量	Drum displacement (ml/r)	40936
系统压力	System rated pressure (MPa)	16
钢丝绳直径	Diameter of rope (mm)	$38^{+0.75}_0$
层数	Number of rope layers	7
容绳量	Capability of drum (m)	500
供油流量	Pump flow (L/min)	300 ($\eta v=0.94$)
液压马达型号	Hydraulic motor type	INM5-1450D48011
行星减速器型号	Planetary gearbox type	CS6 (i=28)



IYJ699-C

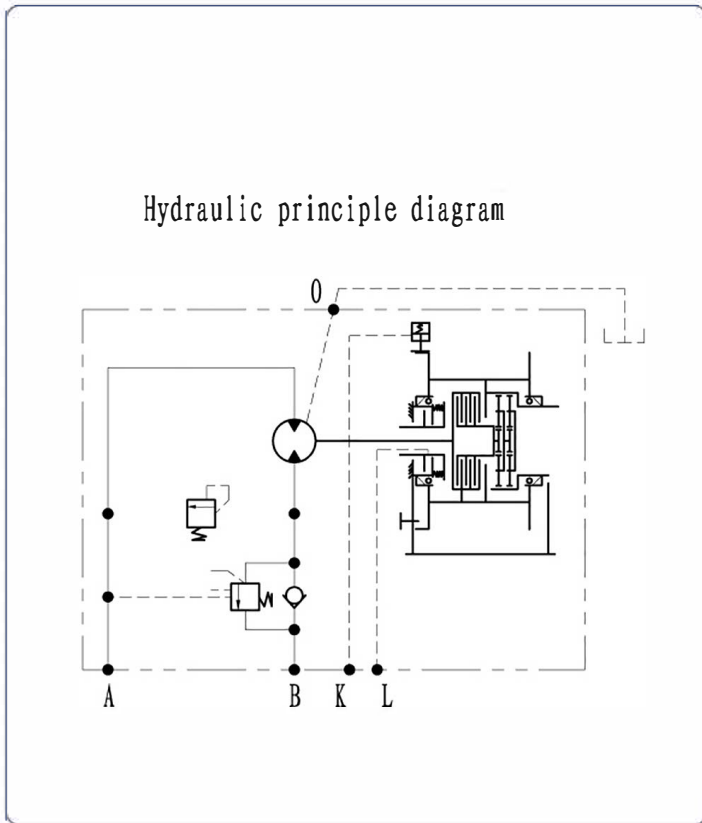
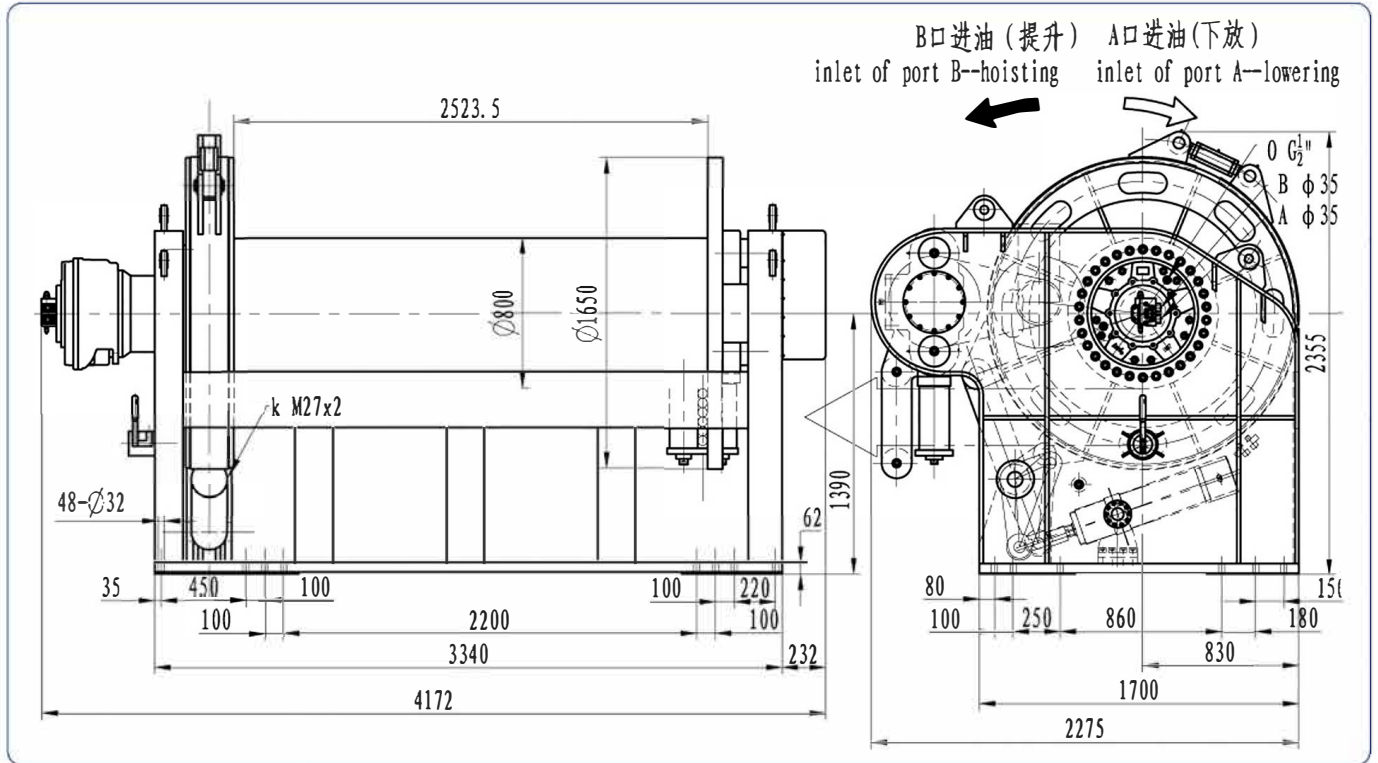


Main Specification

第五层拉力	Rated working pull fifth layer (kN)	350/140
支持负载	Brake support load (KN)	500
第一层绳速	Speed 1st layer (m/min)	6/12
总排量	Drum displacement (mL/r)	75600/37800
系统压力	System rated pressure (MPa)	26/10.5
钢丝绳直径	Diameter of rope (mm)	$38^{+0.75}_0$
层数	Number of rope layers	5
容量	Capability of drum (m)	500
供油流量	Pump flow (L/min)	162 ($\eta v=0.9$)
液压马达型号	Hydraulic motor type	HLA4VSM2500Z-125
行星减速器型号	Planetary gearbox type	IGC330W3-B302-A4V250 (i=302.4)



IYJ99-600-1000-50-C-PDLX

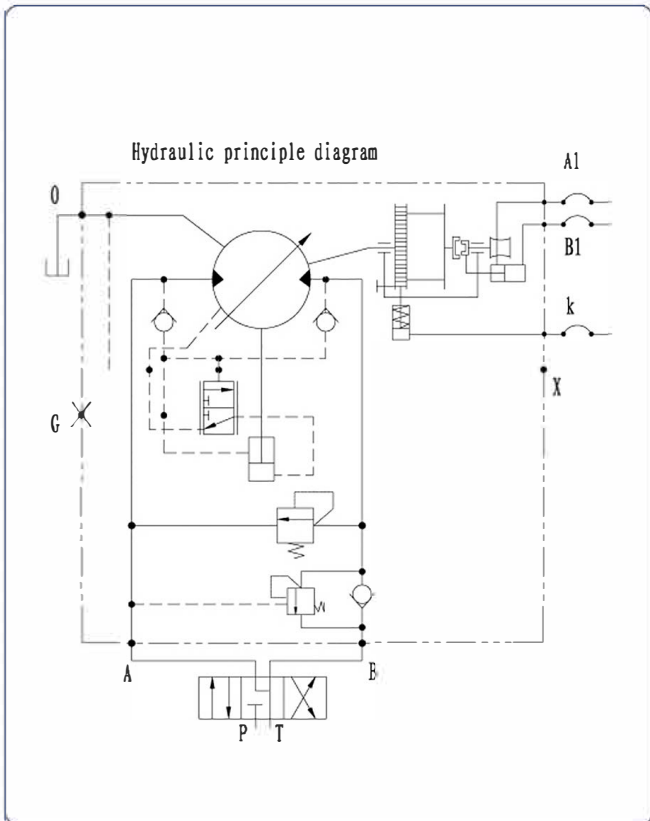
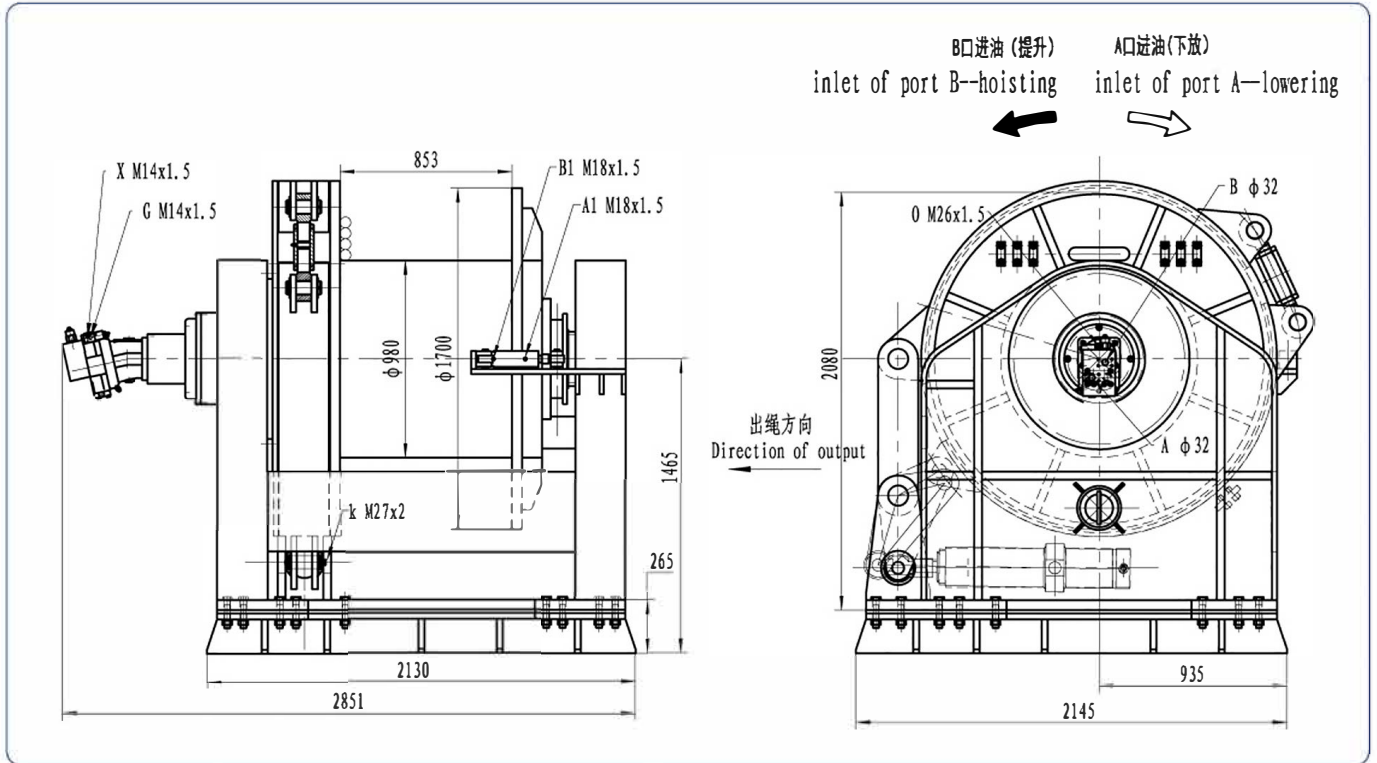


Main Specification

第一层拉力	Rated working pull 1st layer (kN)	600
支持负载	Brake support load (kN)	900
第四层绳速	Speed fourth layer (m/min)	5
总排量	Drum displacement (mL/r)	90744.43
系统压力	System rated pressure (MPa)	22
钢丝绳直径	Diameter of rope (mm)	50 ⁺¹ ₀
层数	Number of rope layers	6
容绳量	Capability of drum (m)	1000
供油流量	Pump flow (L/min)	139 (η _v =0.9)
液压马达型号	Hydraulic motor type	INM7-3600D24011
行星减速器型号	Planetary gearbox type	TCG330W2-325-INM7 (i=25.13)



IYJ4611-750/150-240-54-C-PDLX

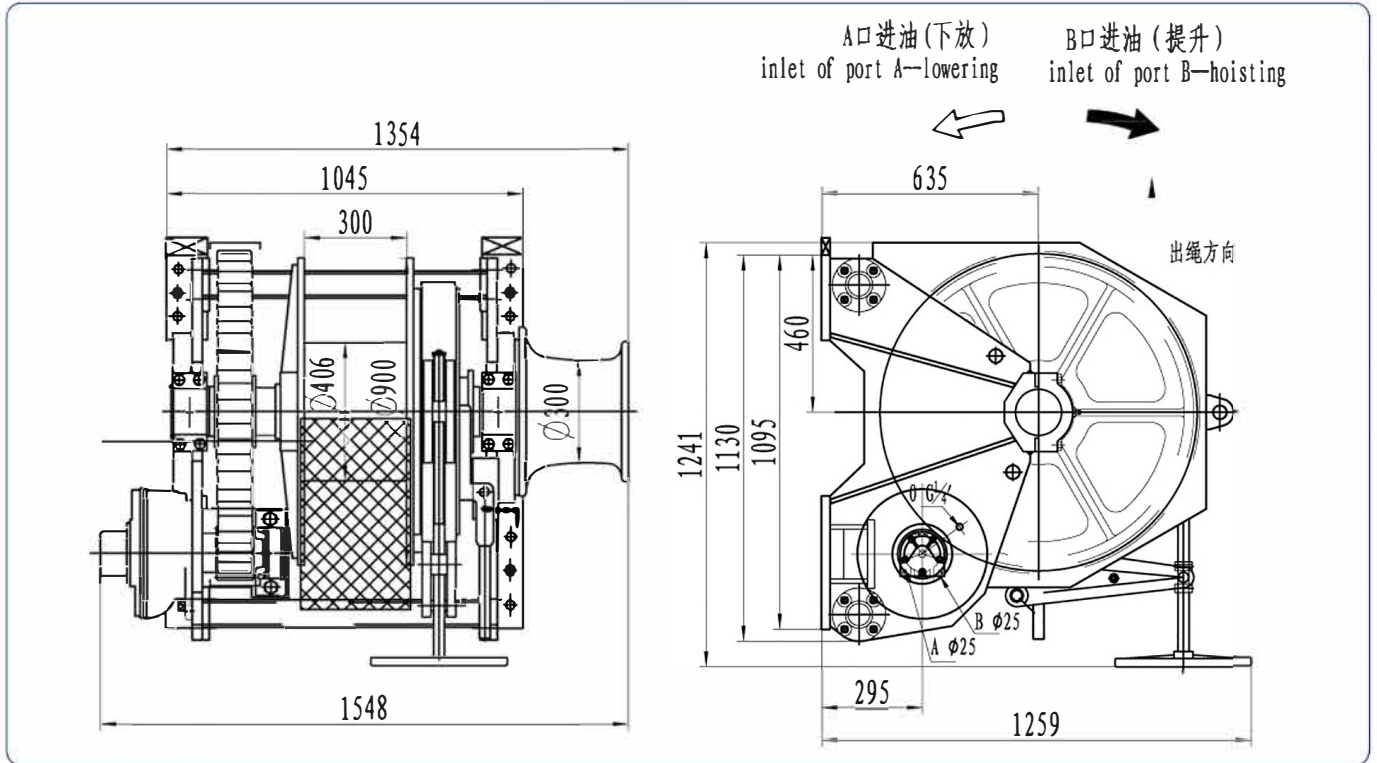


Main Specification

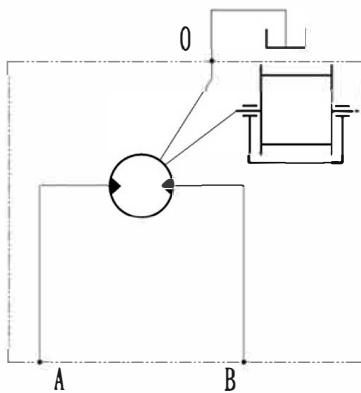
第一层拉力 Rated working pull 1st layer (kN)	750/150
支持负载 Brake support load (KN)	1250
第一层绳速 Speed 1st layer (m/min)	5/20
总排量 Drum displacement (mL/r)	103304.35/25826
系统压力 System rated pressure (MPa)	31/26
钢丝绳直径 Diameter of rope (mm)	54
层数 Number of rope layers	4
容绳量 Capability of drum (m)	240
供油流量 Pump flow (L/min)	178 ($\eta v=0.9$)
液压马达型号 Hydraulic motor type	A6VM160HD1D/63W0400VZB080
行星减速器型号 Planetary gearbox type	C46611 (i=645.65)



IYJK08-50-150-22-PDL



Hydraulic principle diagram



Winch main Specification

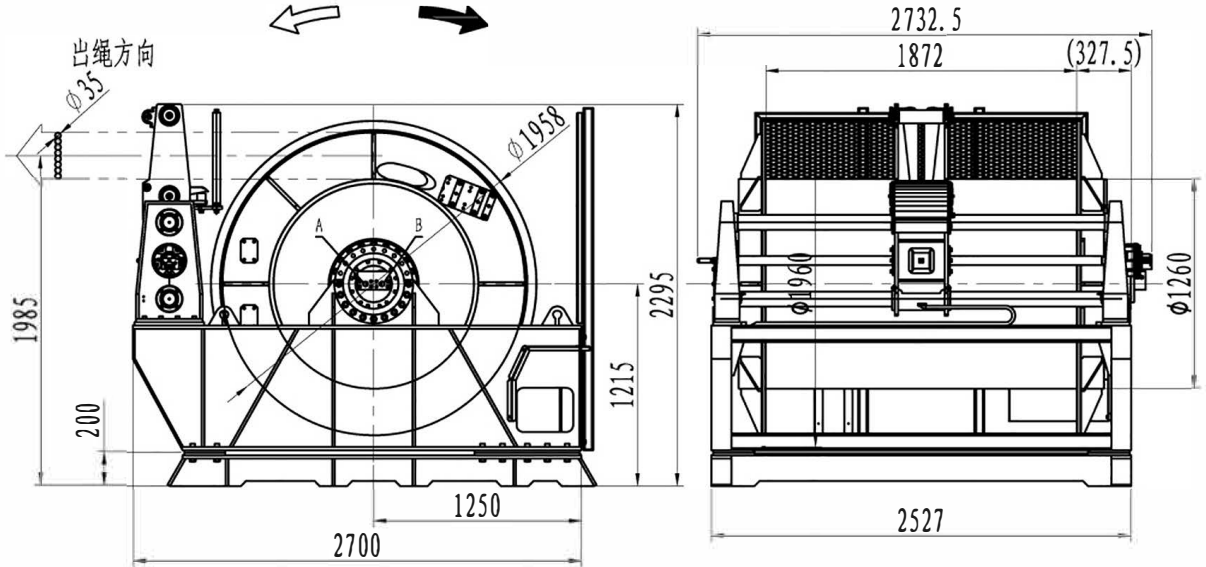
第一层拉力	Rated working pull 1st layer (kN)	50
第一层绳速	Speed 1st layer (m/min)	20
总排量	Drum displacement (mL/r)	6360.66
系统压力	System rated pressure (MPa)	15
钢丝绳直径	Diameter of rope (mm)	22
层数	Number of rope layers	7
容量	Capability of drum (m)	60
供油流量	Pump flow (L/min)	79 ($\eta v=0.9$)
液压马达型号	Hydraulic motor type	GM3-1000-7D47



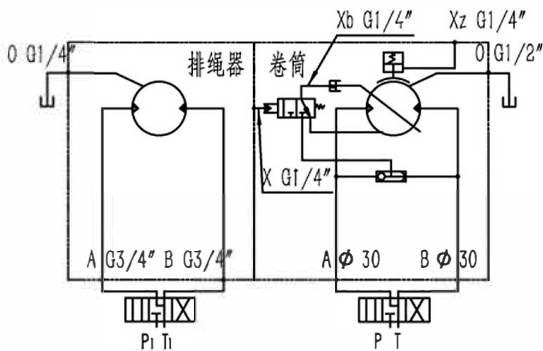
info@zeiusa.com www.zeiusa.com ZEIUSA LLC

IYJ355-50-2000-35-DP

A口进油(下放) B口进油(提升)
 inlet of port A--lowering inlet of port B--hoisting



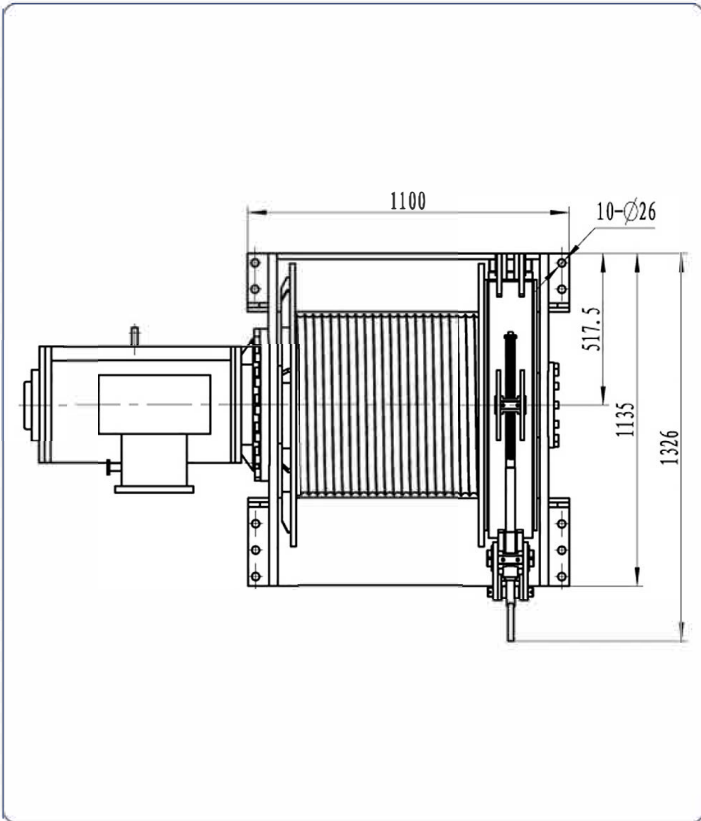
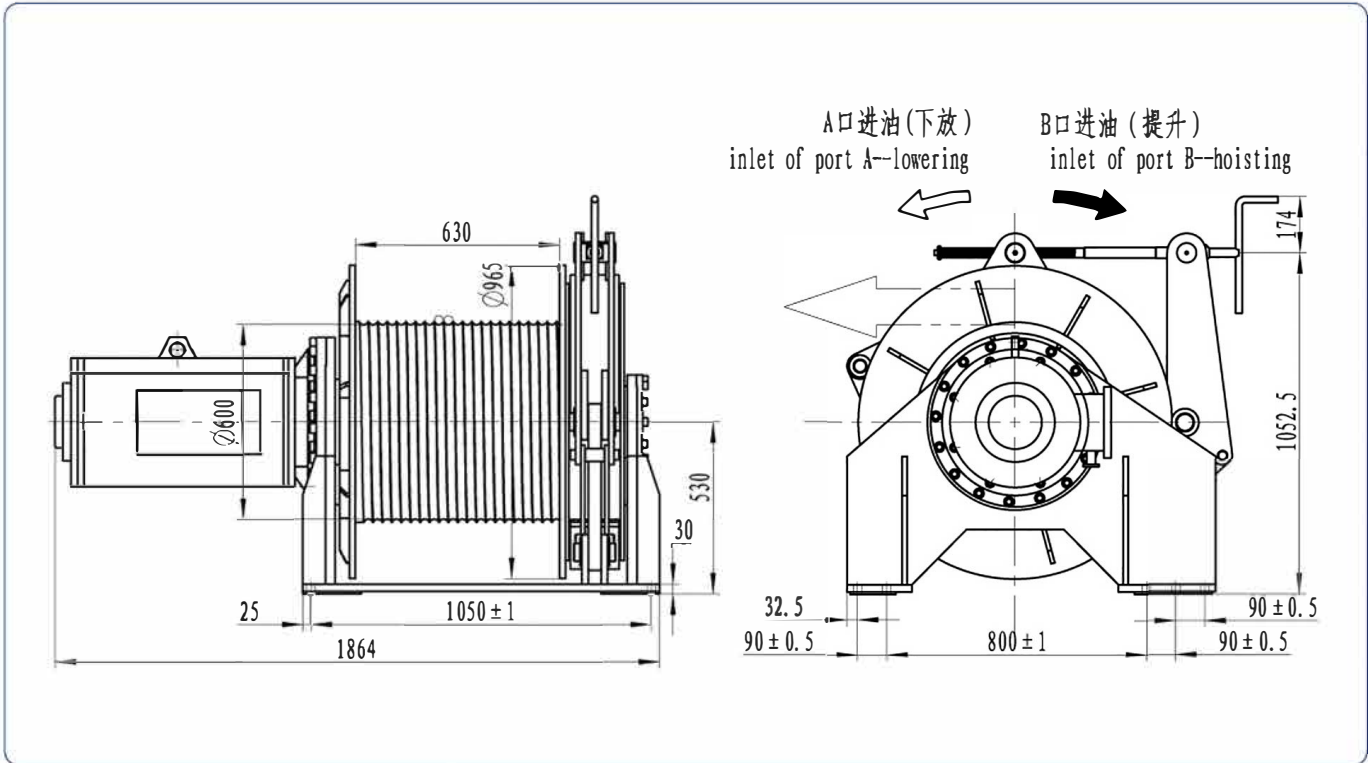
Hydraulic principle diagram



Winch main Specification

第四层拉力	Rated working pull 4st layer (kN)	50
第四层绳速	Speed 4th layer (m/min)	90
总排量	Drum displacement (mL/r)	13162
系统压力	System rated pressure (MPa)	25
钢丝绳直径	Diameter of rope (mm)	35
层数	Number of rope layers	8
容量	Capability of drum (m)	2000
供油流量	Pump flow (L/min)	278 (η v=0.9)
液压马达型号	Hydraulic motor type	IGT80T3-B76.7-IM171.6/111

IDJ344-50-200-28-D

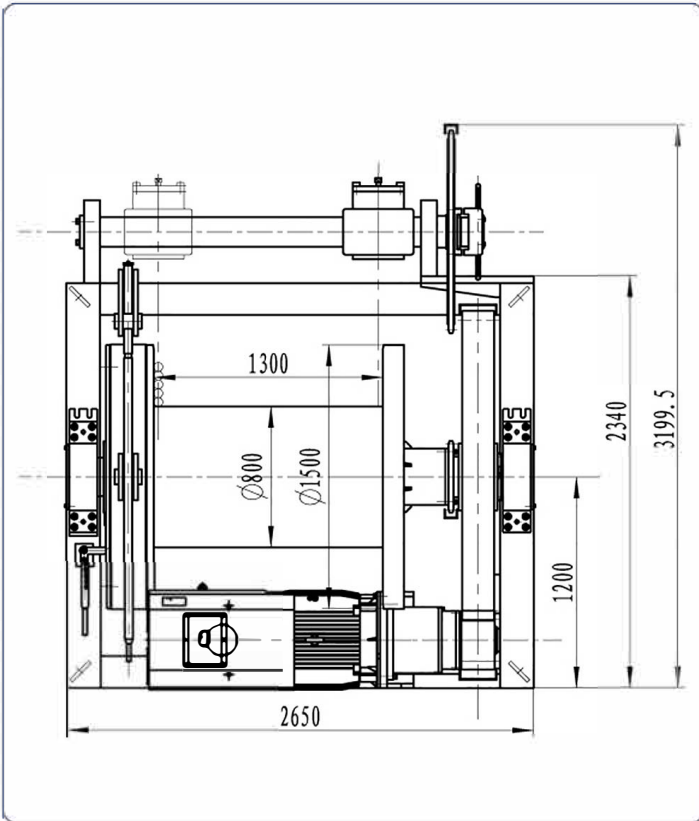
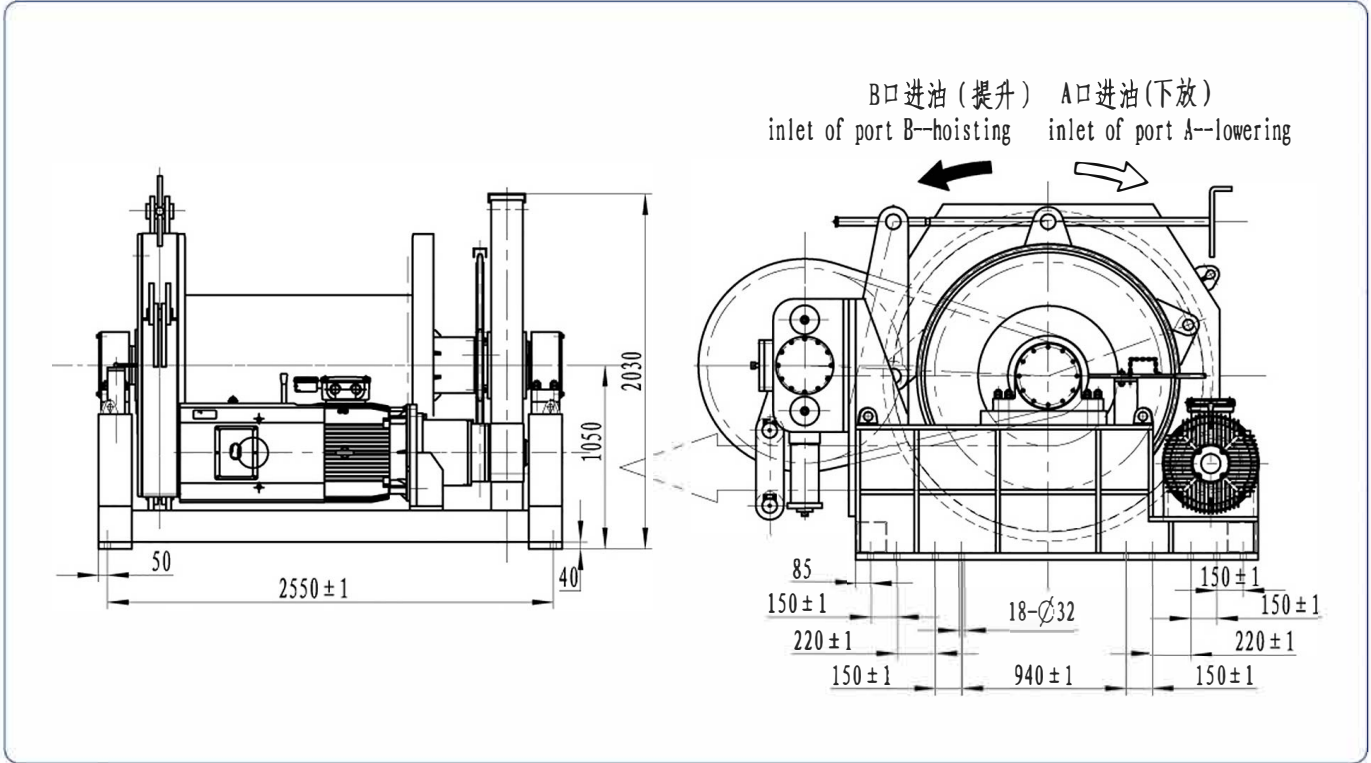


Main Specification

第4层拉力	Rated working pull 4th layer (kN)	50
支持负载	Brake support load (kN)	210
第一层绳速	Speed 1st layer (m/min)	12/5.7/2.75
钢丝绳直径	Diameter of rope (mm)	28
层数	Number of rope layers	4
容绳量	Capability of drum (m)	200
电机型号	Motor model	JZ2-H42-4/8/16
电机功率	Rated power of the Motor (kW)	11/11/7.5



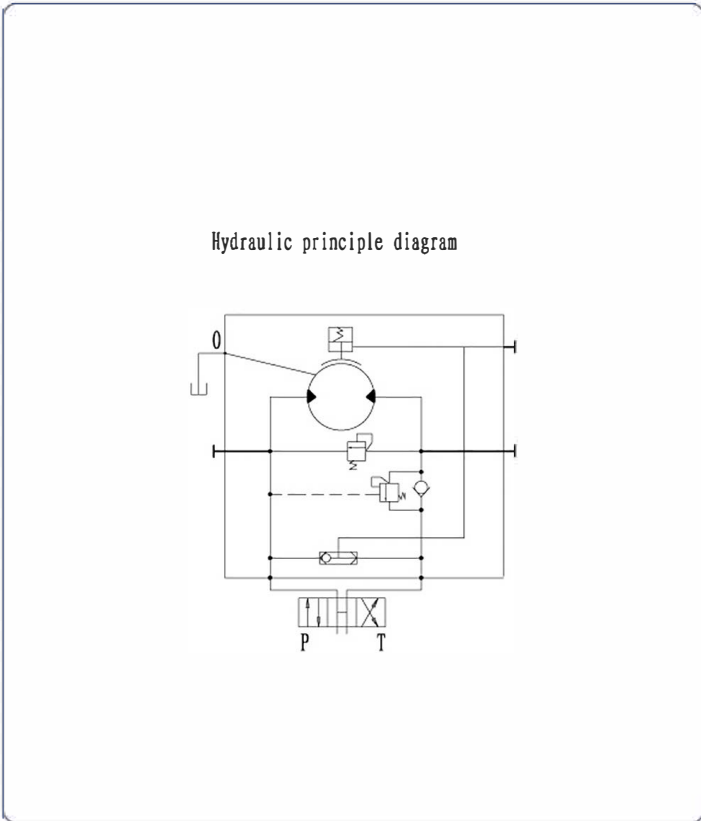
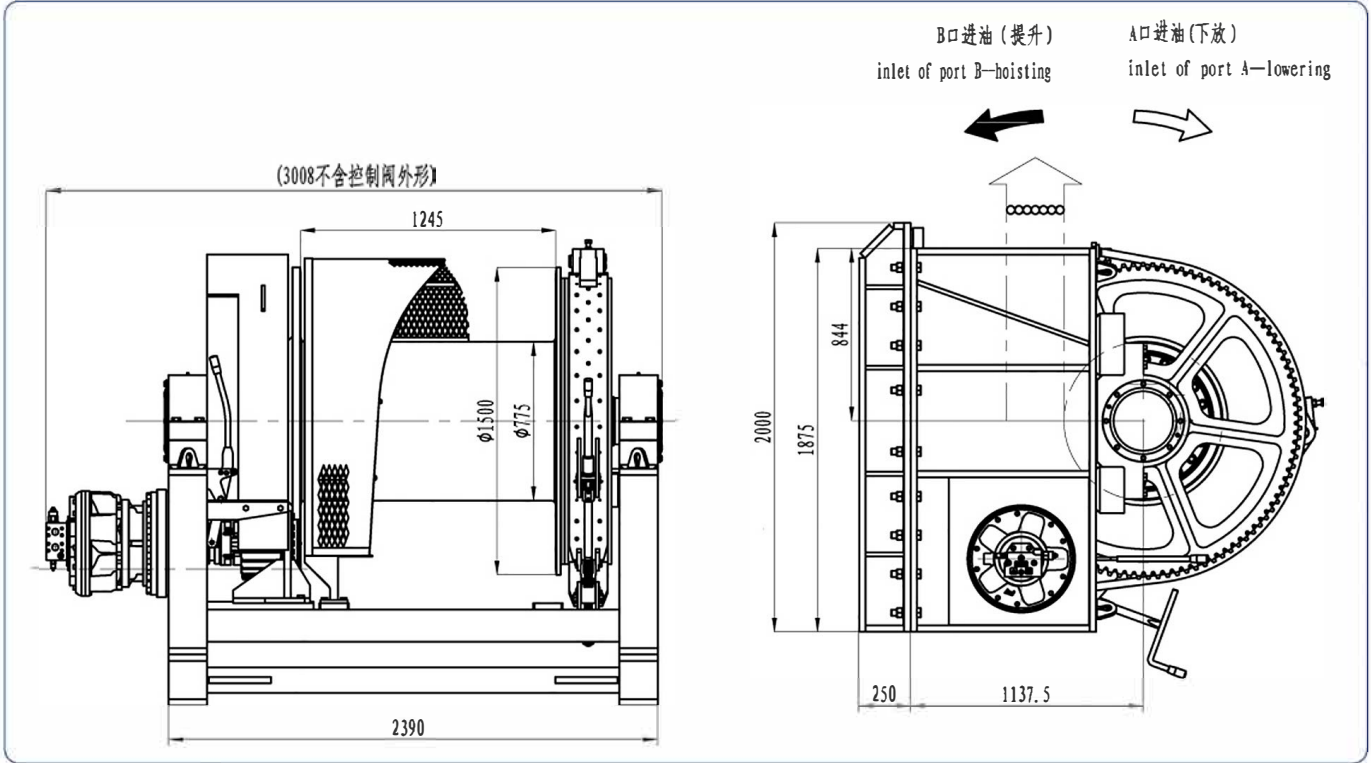
IDJK3514-150-400-50-LDB



Main Specification

第五层拉力	Rated working pull 5th layer (kN)	150/75
支持负载	Brake support load (KN)	770
第一层绳速	Speed 1st layer (m/min)	4/8
钢丝绳直径	Diameter of rope (mm)	50
层数	Number of rope layers	5
容绳量	Capability of drum (m)	400
电机型号	Motor modle	W21-250S/M-37KW-6P-BST
电机功率	Rated power of the Motor (kW)	37

IYJK12



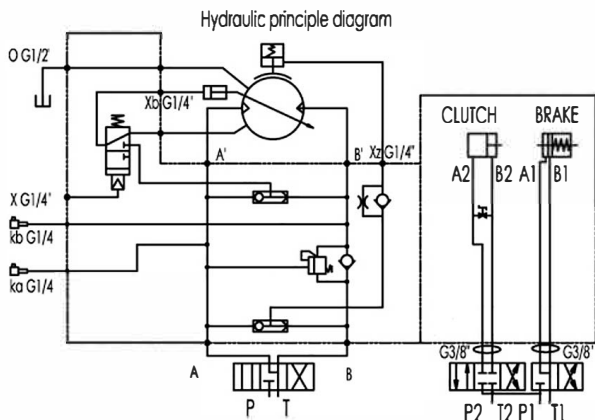
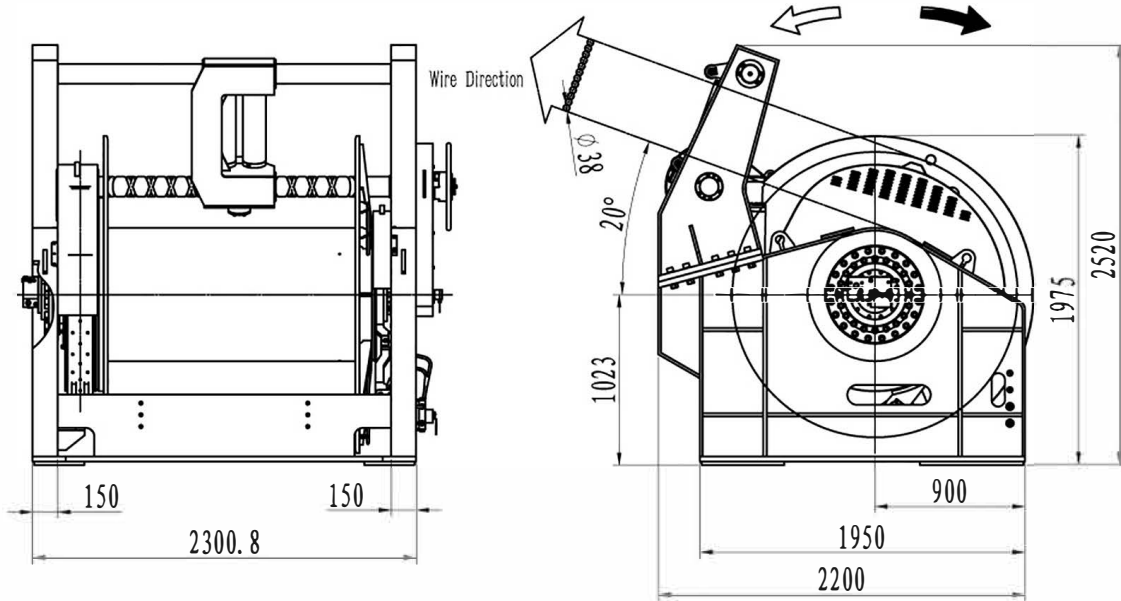
Winch main Specification

第四层拉力 Rated working pull 4ur layer (kN)	150
第一层绳速 Speed 2nd layer (m/min)	12
总排量 Drum displacement (mL/r)	6138
系统压力 System rated pressure (MPa)	17
钢丝绳直径 Diameter of rope (mm)	32
层数 Number of rope layers	8
容绳量 Capability of drum (m)	500
供油流量 Pump flow (L/min)	191 ($\eta_v=0.9$)
液压马达型号 Hydraulic motor type	INM4-1100D480111



IYJ34.54.5-160-1800-38-LPZGV

A口进油(下放) B口进油(提升)
 inlet of port A—lowering inlet of port B—hoisting

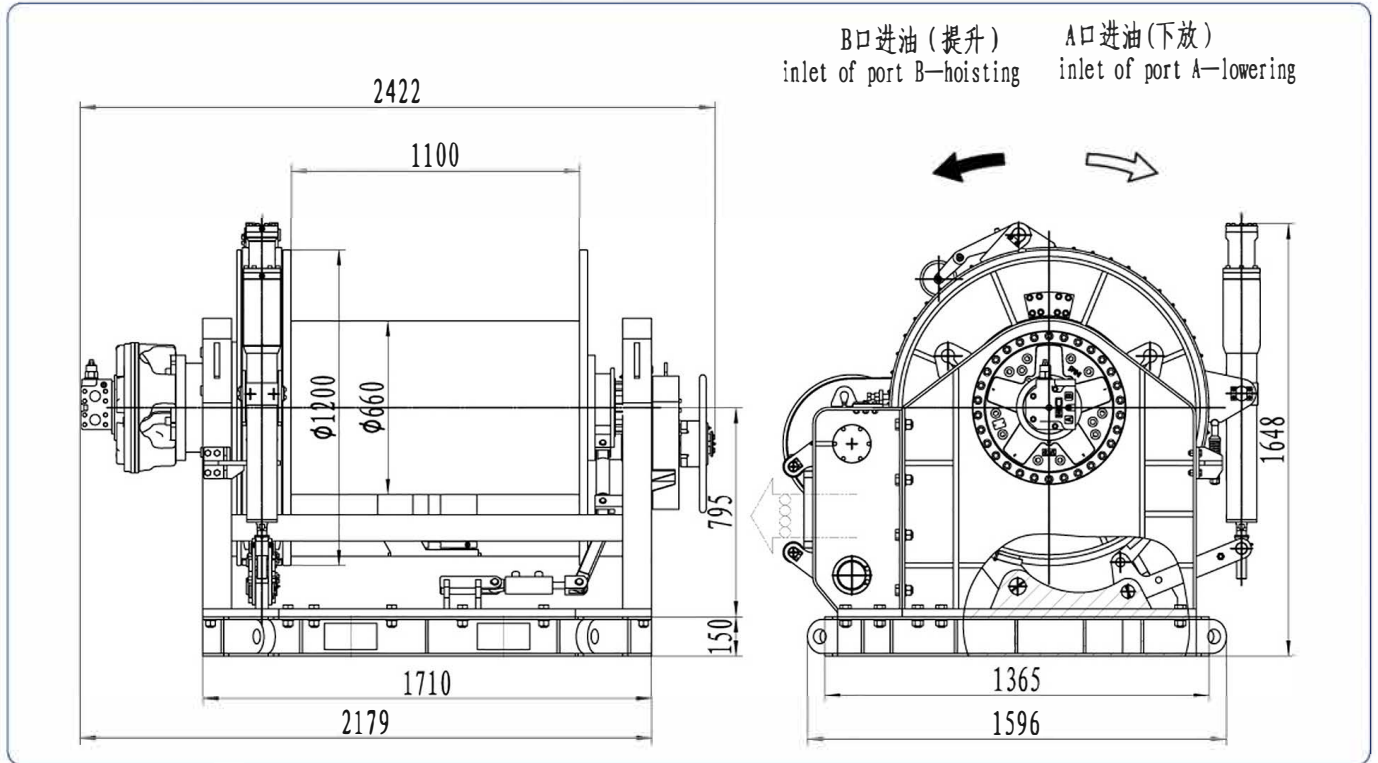


Winch main Specification

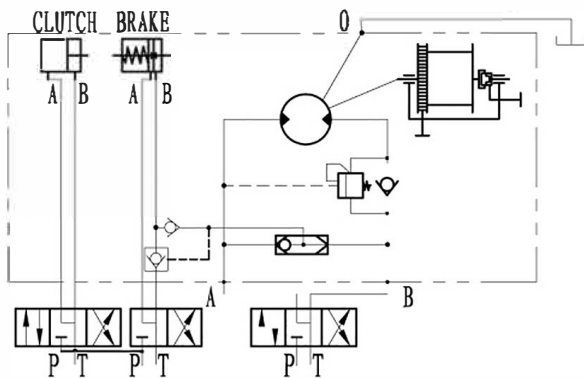
第一层拉力	Rated working pull 1st layer(kN)	160
第一层绳速	Speed 1st layer(m/min)	12
总排量	Drum displacement(ml/r)	25723
系统压力	System rated pressure(MPa)	25
钢丝绳直径	Diameter of rope(mm)	38
层数	Number of rope layers	12
容量	Capability of drum(m)	1800
供油流量	Pump flow(L/min)	130(ηv=0.9)
液压马达型号	Hydraulic motor type	1GT80T3-B149.9-1M171.6/111



IYJ56-200-268-41-PDL



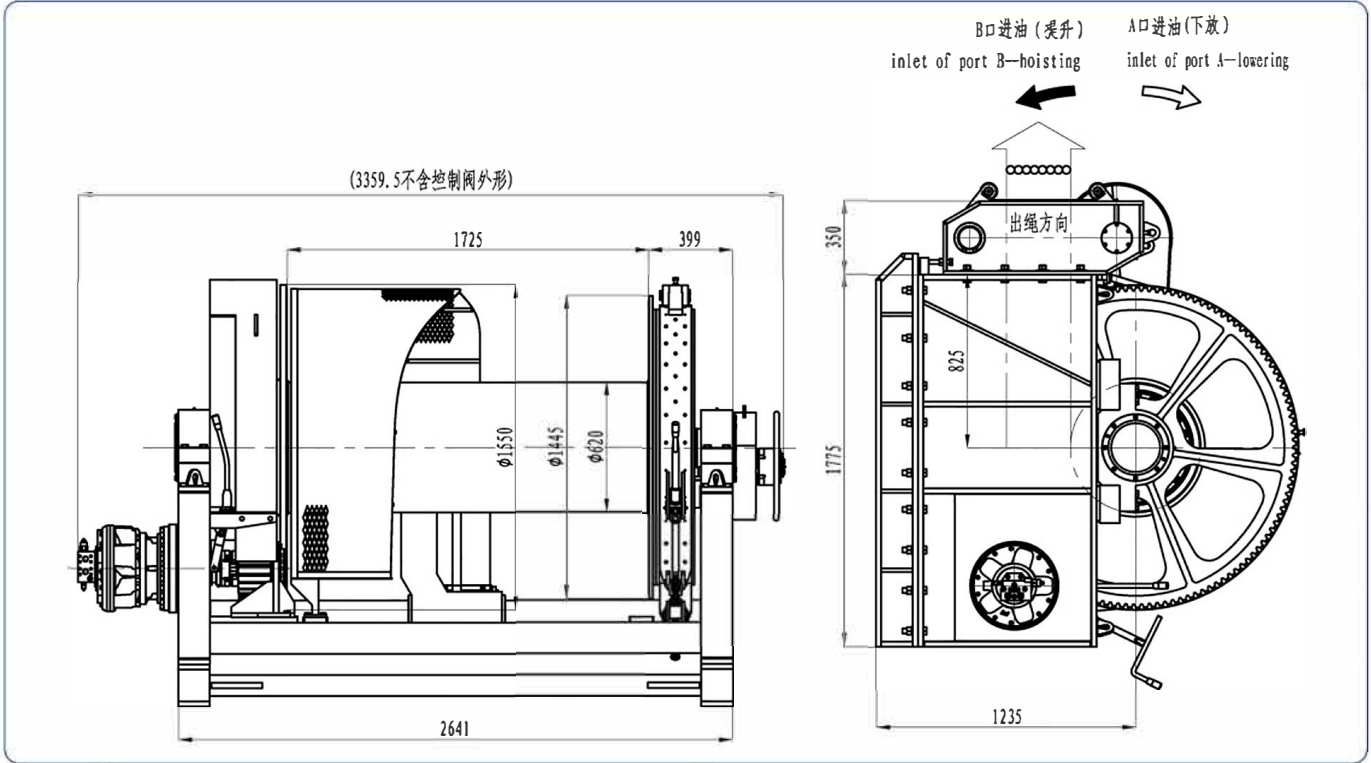
Hydraulic principle diagram



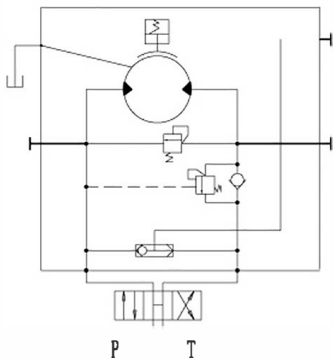
Winch main Specification

第一层拉力	Rated working pull 1st layer (kN)	200
第一层绳速	Speed 1st layer (m/min)	12
总排量	Drum displacement (mL/r)	40936
系统压力	System rated pressure (MPa)	15.5
钢丝绳直径	Diameter of rope (mm)	41
层数	Number of rope layers	4
容绳量	Capability of drum (m)	268
供油流量	Pump flow (L/min)	248 ($\eta v=0.9$)
液压马达型号	Hydraulic motor type	INMS-1450D480101

IYJK12

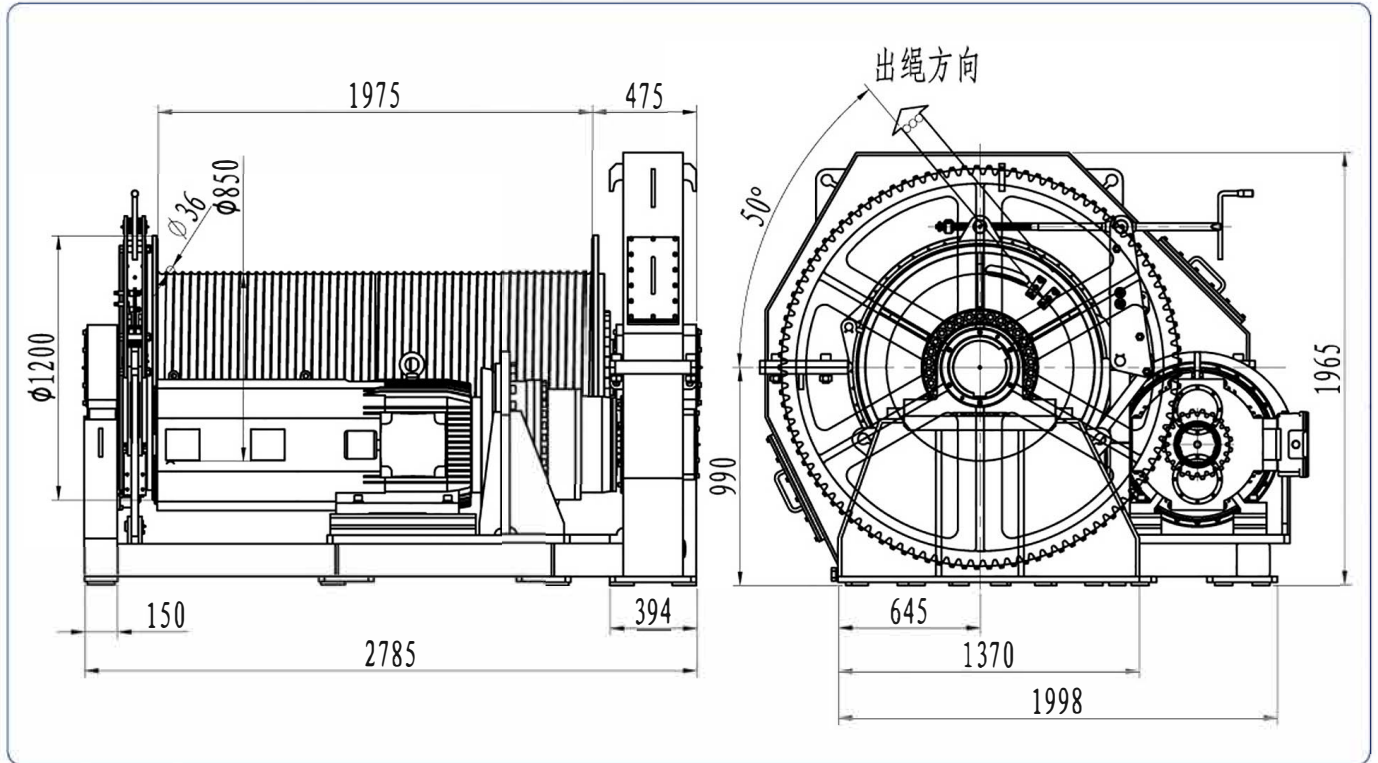


Hydraulic principle diagram



Winch main Specification

第四层拉力 Rated working pull 4ur layer (kN)	200
第二层绳速 Speed 2nd layer (m/min)	12
总排量 Drum displacement (mL/r)	6138
系统压力 System rated pressure (MPa)	20
钢丝绳直径 Diameter of rope (mm)	38
层数 Number of rope layers	8
容绳量 Capability of drum (m)	1000
供油流量 Pump flow (L/min)	237 ($\eta v=0.9$)
液压马达型号 Hydraulic motor type	INM4-1100D48011P

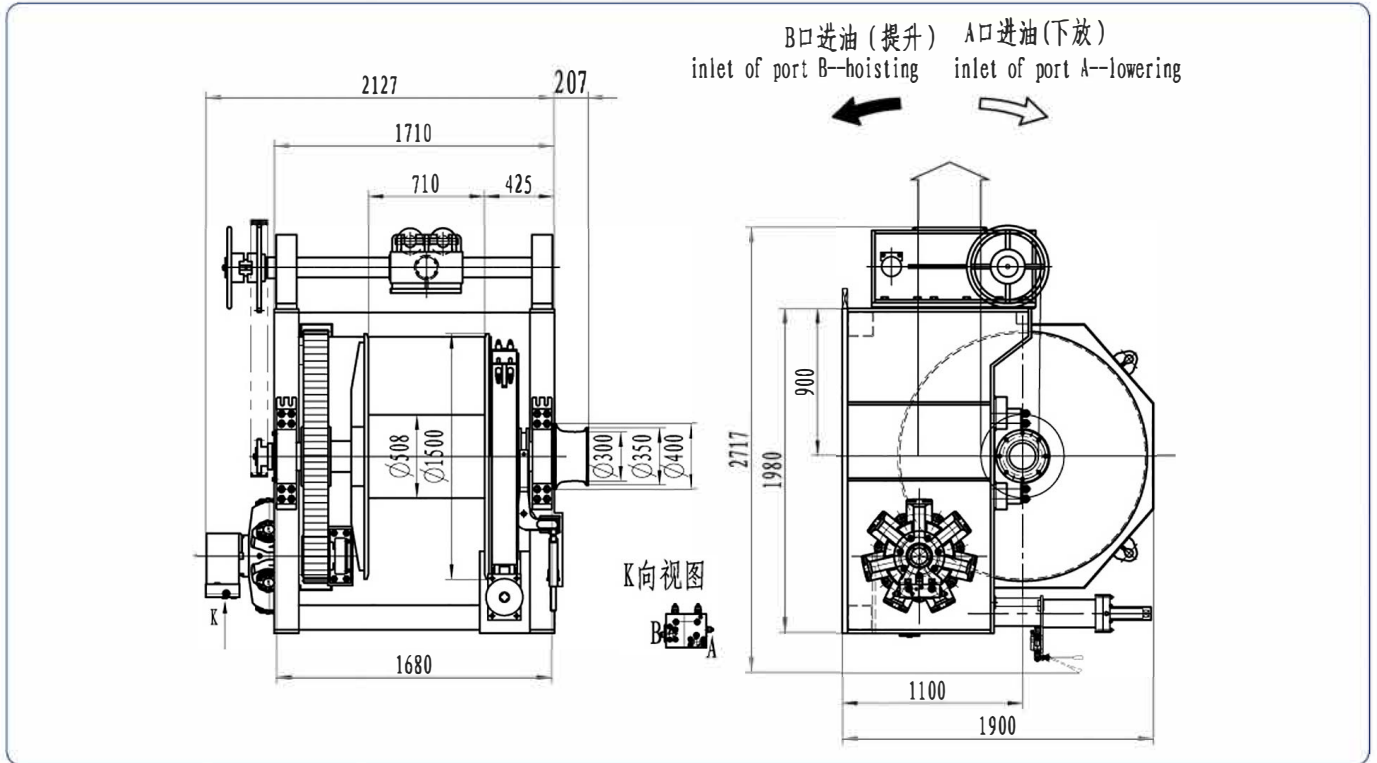


Winch main Specification

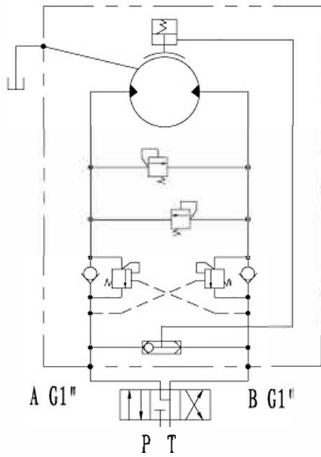
Rope layer	钢丝绳层数	3
Line pull	钢丝绳拉力(kN)	250 (2nd layer)
Rope speed	绳速(m/min)	15
Rope capacity	容量(m)	300
Rope size	钢绳规格(mm)	36
Gearbox model	减速箱型号	C56 (i=28)
System ratio	传动比	141.4
Motor type	电机型号	W21-315S/M-110kW-6P-B35L (D)
Motor Power	电机功率(kW)	110
Motor R.P.M	电机转速(r/min)	985
Voltage and Frequency	电制	380、50Hz
Motor Insulation	绝缘等级	F
Motor Protection	防护等级	IP56



IYJK12-300-800-30-PDL



Hydraulic principle diagram



Capstan main Specification

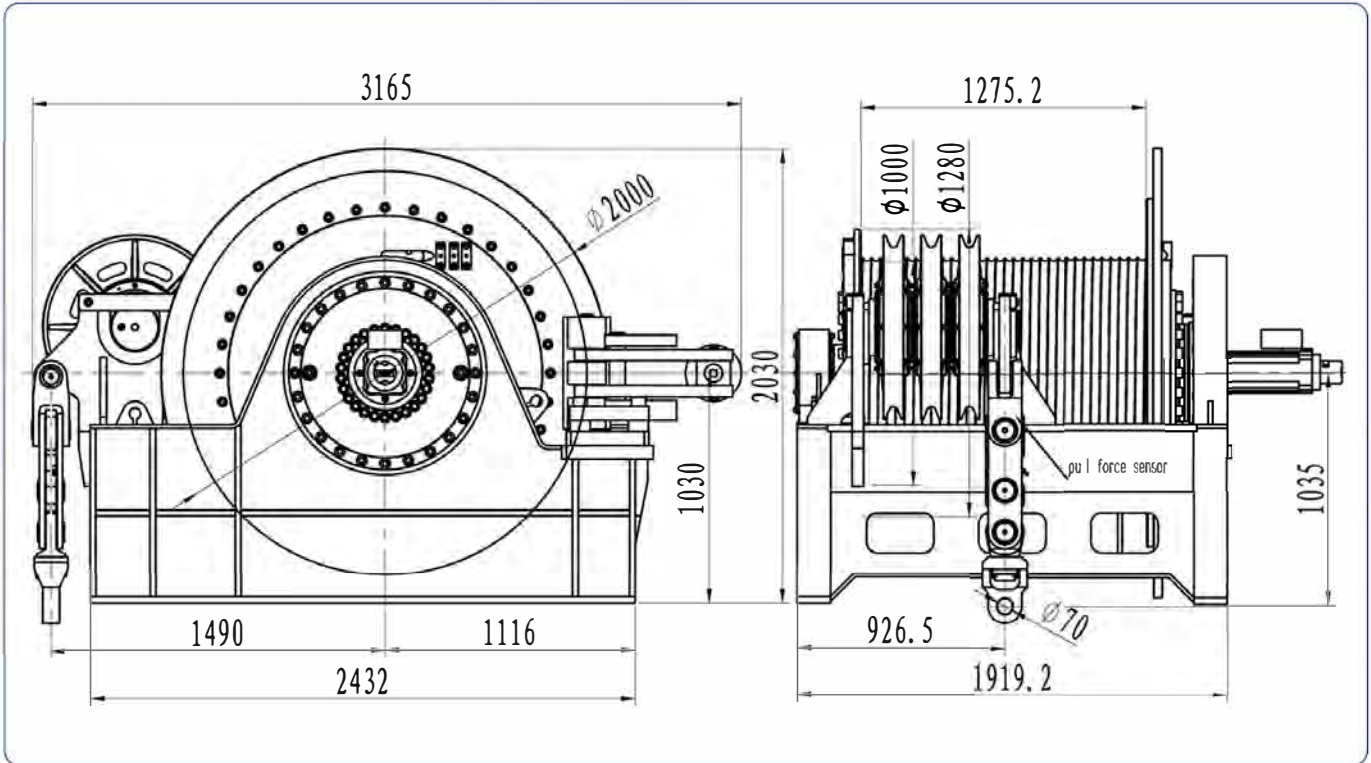
工作拉力 Working pull (kN)	30
工作绳速 Working speed (m/min)	0-20

Winch main Specification

第一层拉力 Rated working pull 1st layer (kN)	300
第一层绳速 Speed 1st layer (m/min)	6
支撑负载 Drum Brake Holding (kN)	450 AT 1st Layer, Static
总排量 Drum displacement (mL/r)	33367.5
系统压力 System rated pressure (MPa)	25
钢丝绳直径 Diameter of rope (mm)	30
层数 Number of rope layers	14
容绳量 Capability of drum (m)	800
供油流量 Pump flow (L/min)	131.6 (ηv=0.9)
液压马达型号 Hydraulic motor type	IMB325-5000-S1



IDJ4888-325-100-38-Z



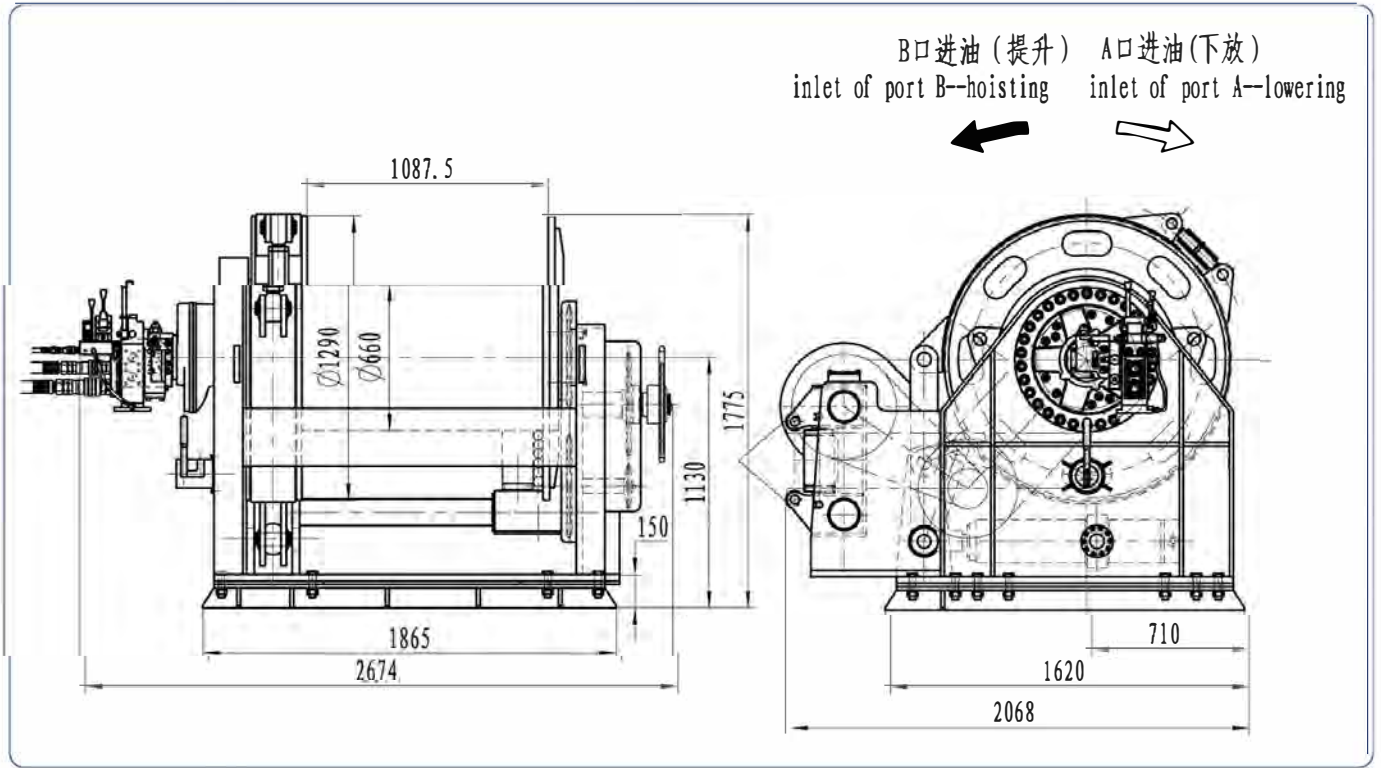
Winch main Specification

Rope layer	钢丝绳层数	1
Line pull	钢丝绳拉力(kN)	325 (1st layer)
Rope speed	绳速(m/min)	1.6
Rope capacity	容绳量(m)	100
Rope size	钢绳规格(mm)	38
Gearbox model	减速箱型号	IGT220W4-3669-CFM112H (i=3669)
System ratio	传动比	3669
Motor type	电机型号	SEW CFM112H/BR/TF/AK1H/KK6 (68Nm)
Motor Power	电机功率(kW)	11
Motor R.P.M	电机转速(r/min)	2000
Voltage and Frequency	电制	380、50Hz
Motor Insulation	绝缘等级	F
Motor Protection	防护等级	IP56

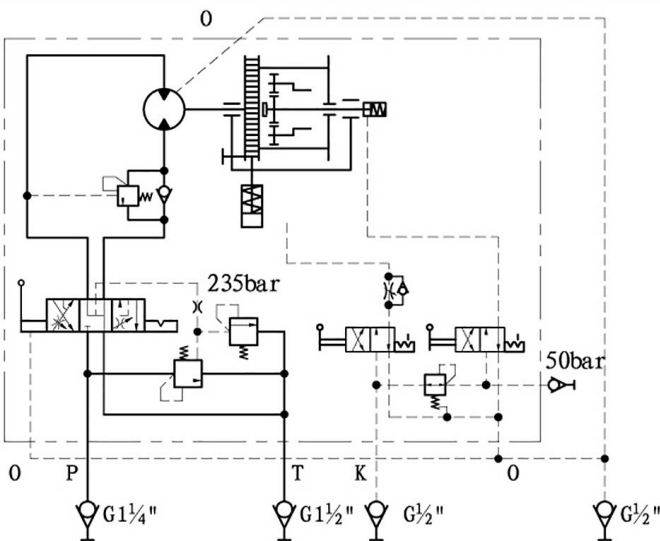


info@zeiusa.com www.zeiusa.com ZEIUSA LLC

IYJ6.56.5-450-400-42-PDLBX

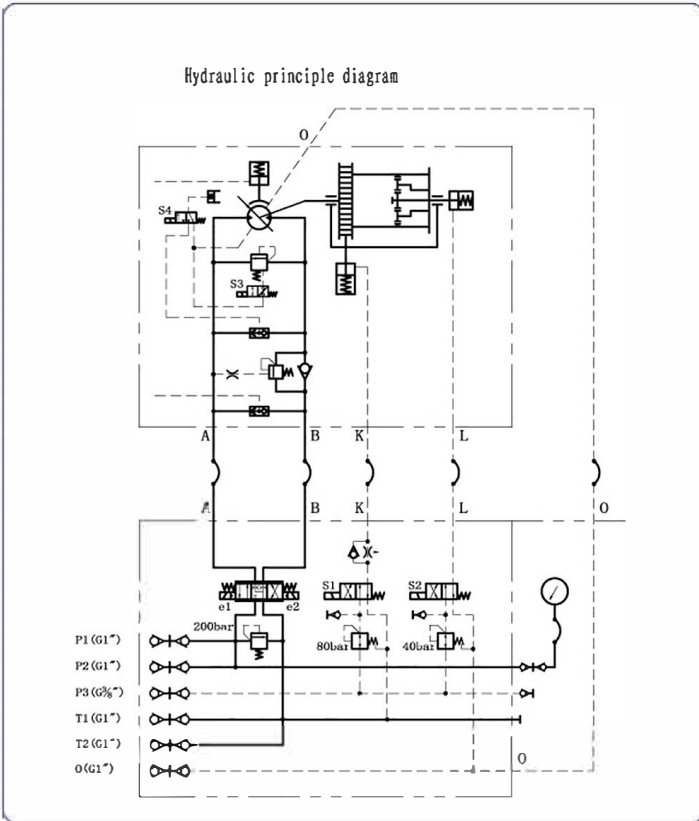
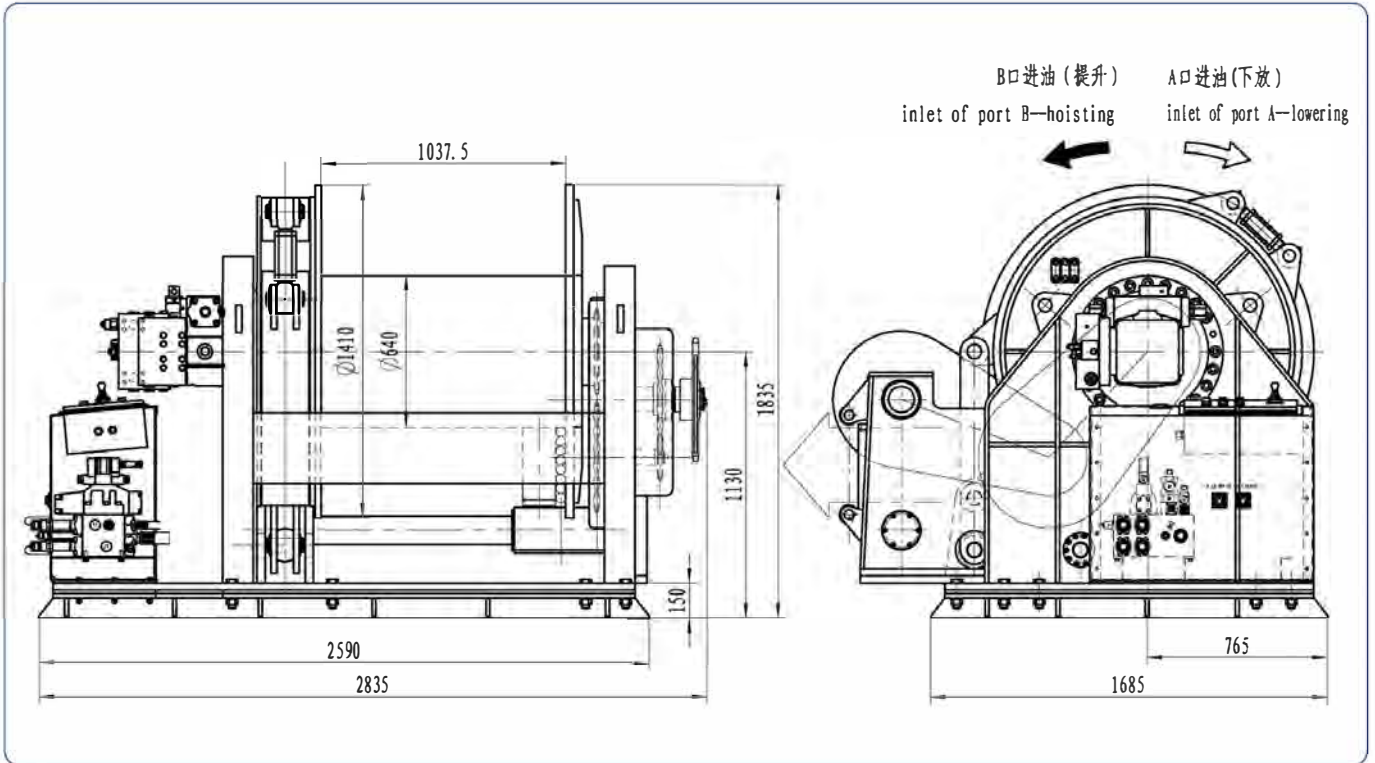


Hydraulic principle diagram



Main Specification

第一层额定拉力 Rated working pull on first layer(t)	45
第一层绳速 Nominal speed at first layer(m/min)	8.5
卷筒排量 Drum displacement(L/r)	56.056
支持负载 Support load(t)	120
系统额定压力 System rated pressure(Bar)	223
钢丝绳直径 Diameter of rope(mm)	42 ^{+0.8} ₀
层数 Number of rope layers	6
容绳量 Capability of drum(m)	400
泵供油流量 Pump flow(L/min)	235 (η _v =0.9)
液压马达型号Hydraulic motor type	IGC180W2-B28-INM5 (i=27.93)
减速器型号Planetary gearbox type	INM5-2000D4801



Main Specification

第一层额定拉力 Rated working pull on first layer(t)	50	35
第一层绳速 Nominal speed at first layer(m/min)	5.3	7
卷筒排量 Drum displacement (L/r)	62.75	47.188
支持负载 Support load (t)	100	
系统额定压力 System rated pressure(Bar)	235	
钢丝绳直径 Diameter of rope (mm)	40 ^{+0.8} ₀	
层数 Number of rope layers	8	
容量 Capacity of drum (m)	600	
泵供油流量 Pump flow(L/min)	173(ηv=0.9)	
液压马达型号 Hydraulic motor type	HL-A4VSM250DZ/30W-VZB10N00-YN	
减速器型号 Planetary gearbox type	IGC180W3-B251-A4VSM250(i=251)	

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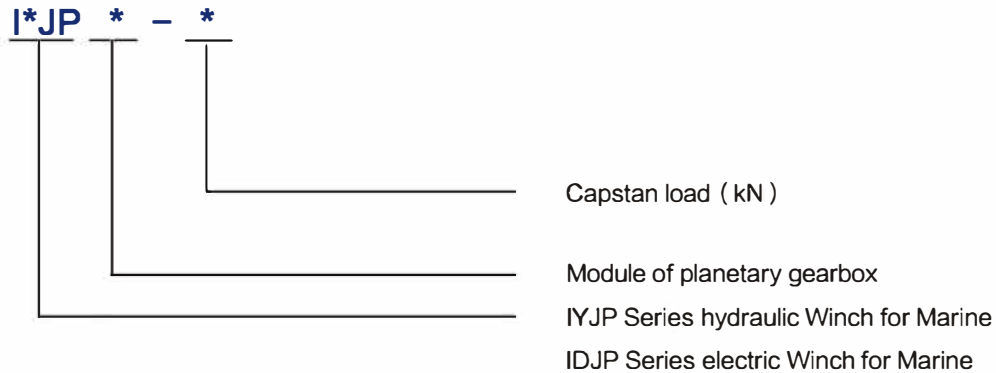


● I*JP Series Winch for Marine

1. Brief Introduction

I*JP Series Winch for Marine are patent products of our company. They consist of valve blocks with function of brake and overload protection, hydraulic motor(electromotor with brake), planetary gearbox, wet type brake, capstan head, frame and so on. Due to fit with valve block, not only simplified the design of hydraulic system but also improved the reliability of drives. In addition, the series feature high startup efficiency and working efficiency, high power, low noise, compact figure, good economy. Therefore the series have been widely applied in ship and deck machinery. The series not only have been popular in domestic market, but also have been exported to Southeast Asia, Holland, Australia and so on.

2. Model Options



3. Options Example

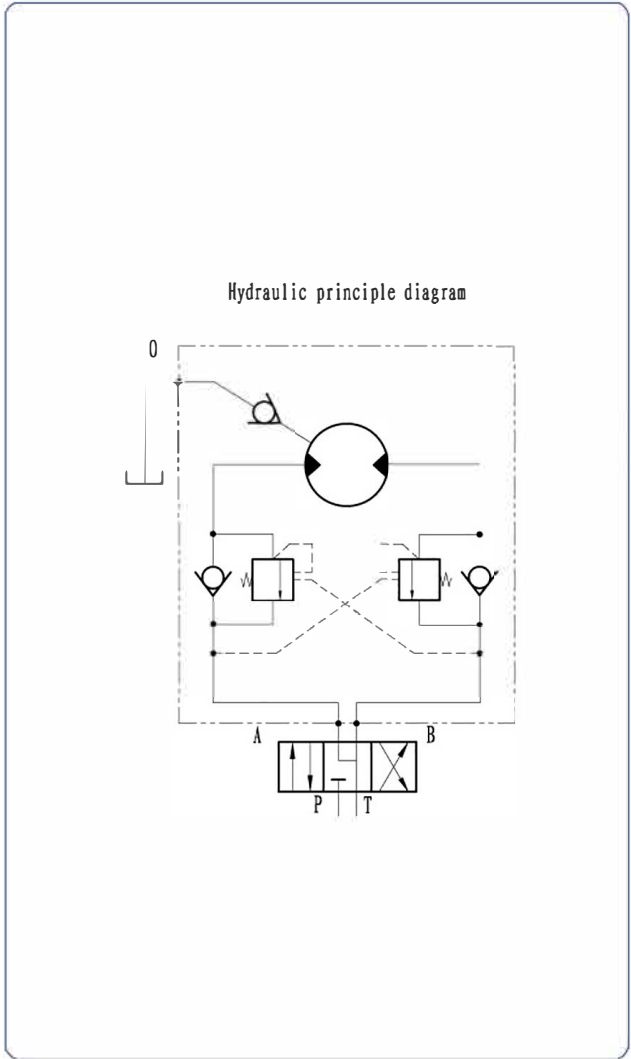
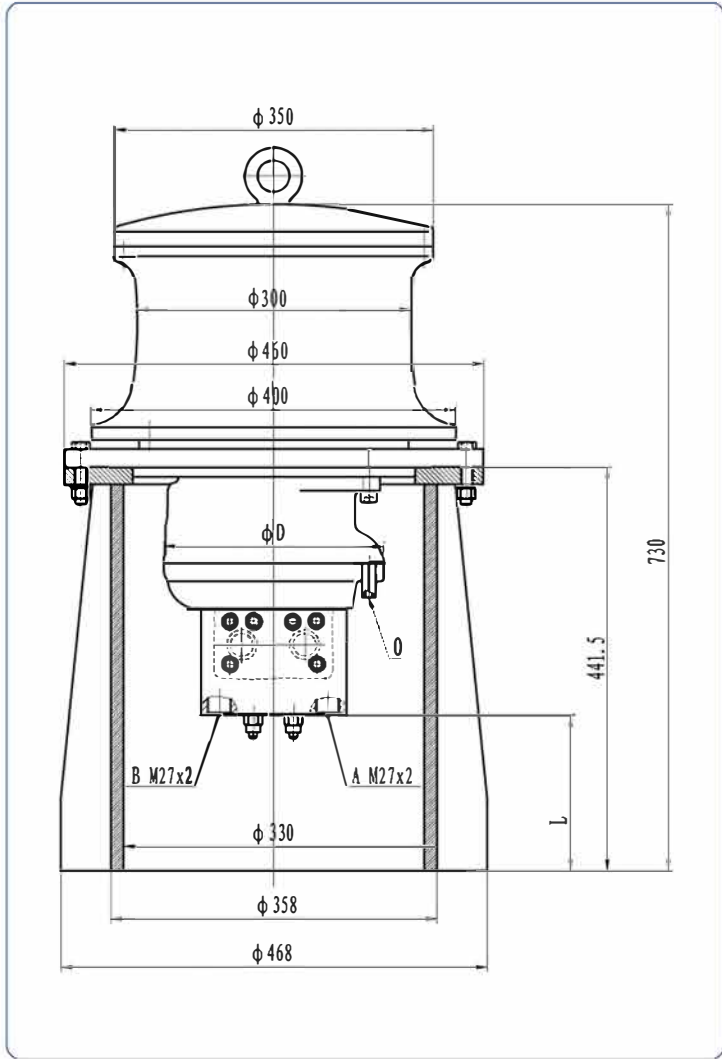
IYJP3-20 represents that the series capstan adopts single stage planetary gearbox, the module of gearbox is 3, and the capstan load is 20kN.

4. Parameter Description

- a. Total displacement represents capacity of oil supply per revolution.
- b. Capacity of oil supply represents theoretic oil flow from supply pump.
- c. Working pressure differential represents pressure drop between inlet port and outlet port of hydraulic motor.



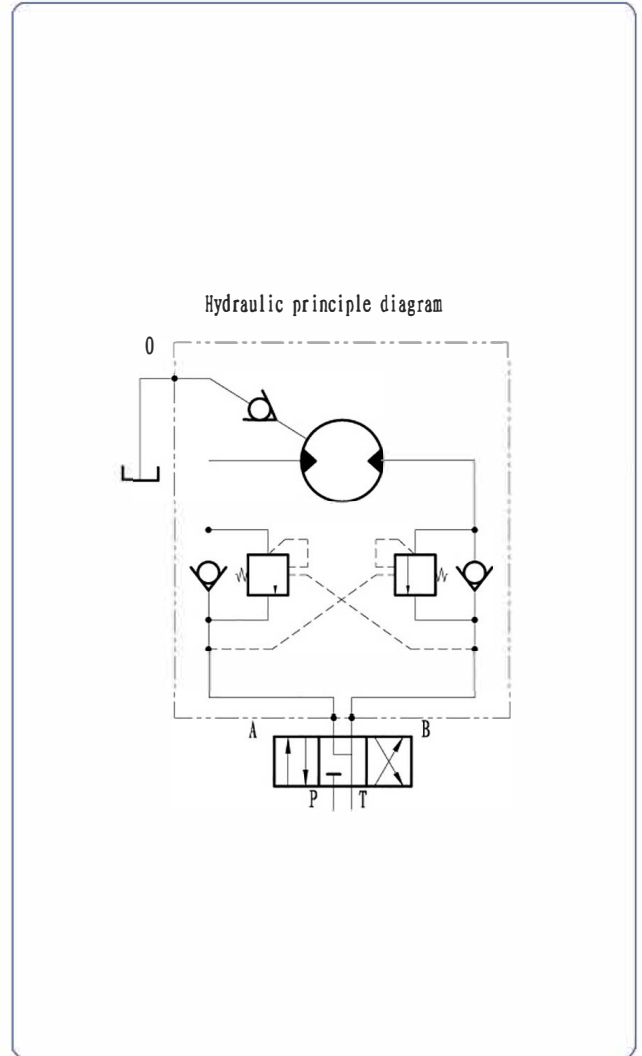
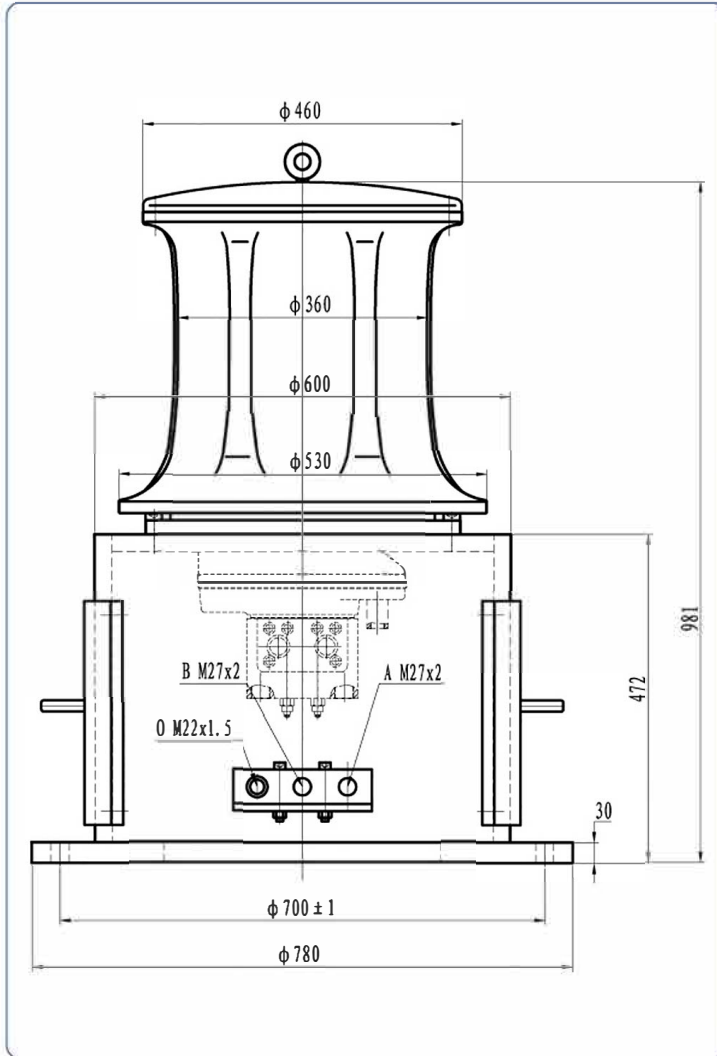
IYJP3



型号 Model	系统负载 System load (kN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model	D	L	0
IYJP3-10	10	25	13	14	860	25	INM1-175D47+F1202	C3AC (I=5)	242	170.6	G1/4"
IYJP3-20	20	20	15	12	2125	48	INM2-420D47+F1202	C3AC (I=5)	304	144.6	G1/2"
IYJP3-30	30	20	17	13	2825	63	INM2-550D47+F1202	C3AC (I=5)	304	144.6	G1/2"

Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.

IYJP4

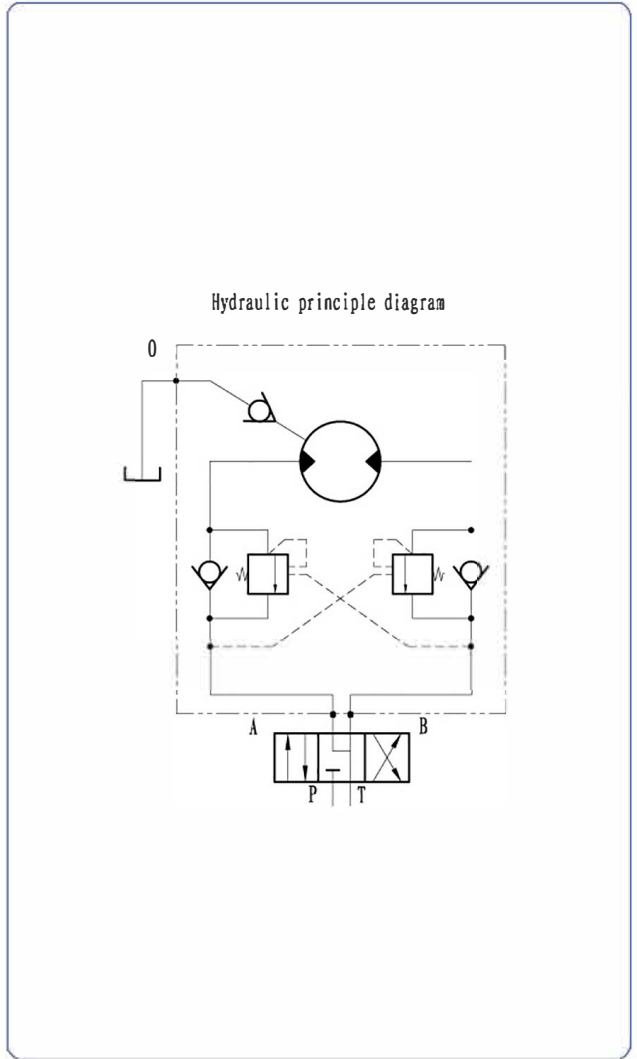
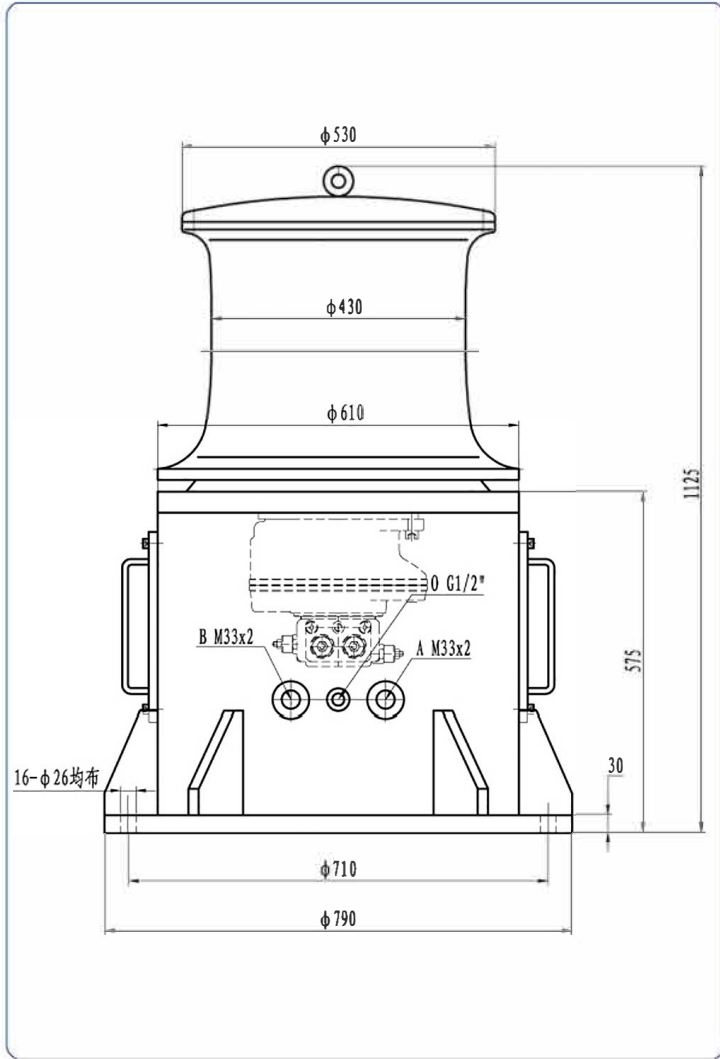


型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压力差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP4-40	40	15	20	14.5	3955	56	INM2-600D47+F1202	C4C(I=7)
IYJP4-50	50	15	20	16	4361	60	INM2-630D47+F1202	C4C(I=7)
IYJP4-60	60	15	22	19.5	4361	60	INM2-630D47+F1202	C4C(I=7)

Note: When the neutral position function of 3/4 directional valve is "o" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.



IYJP34

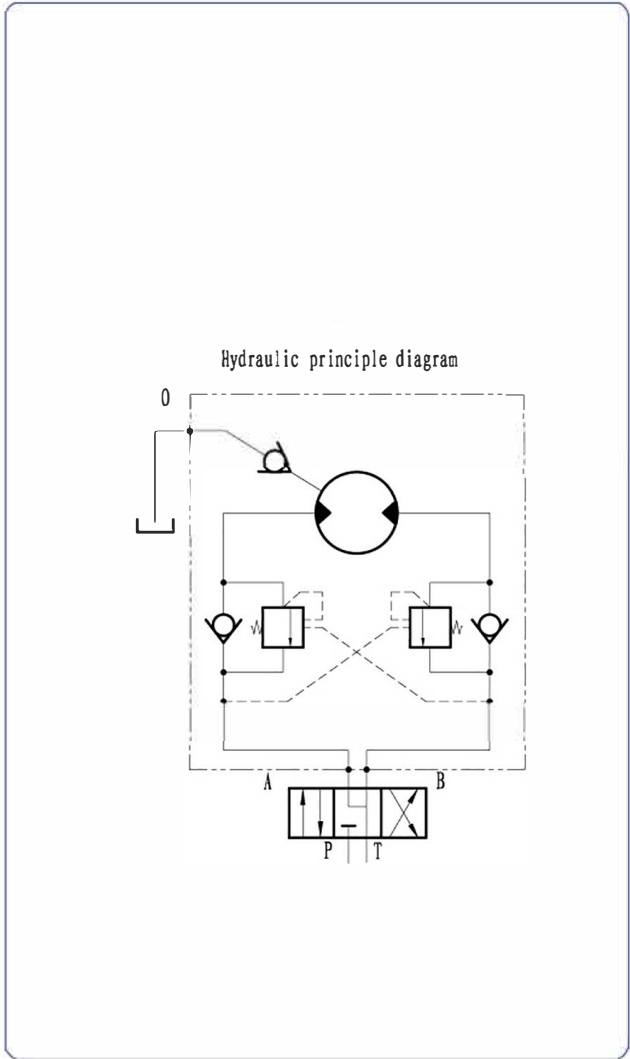
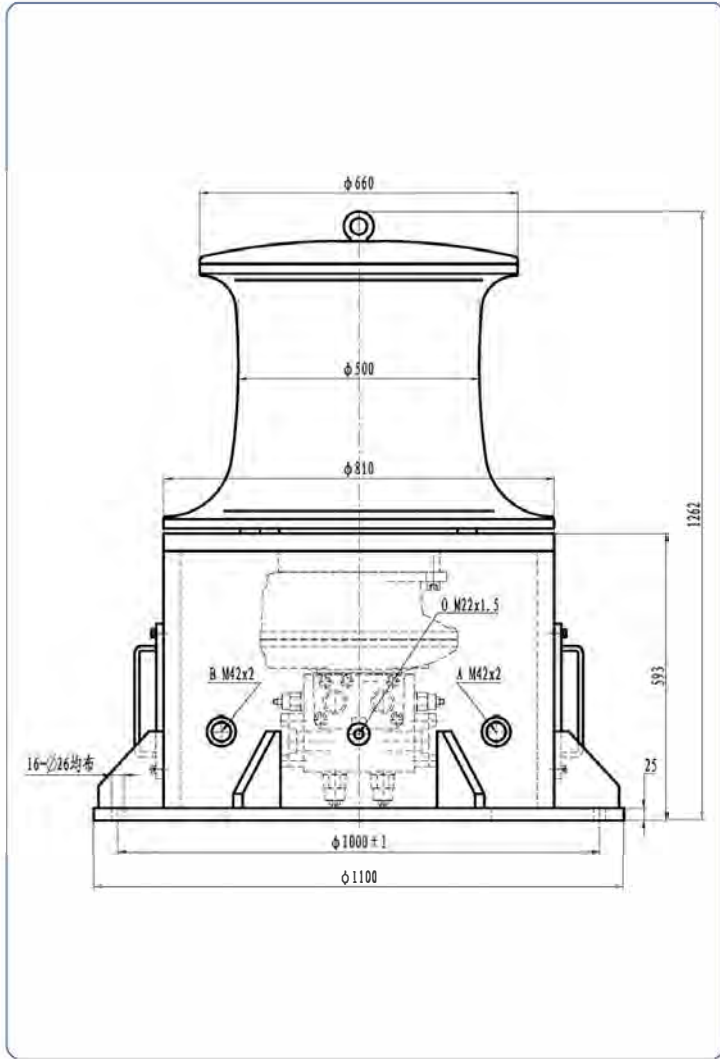


型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP34-80	80	12	24	12	11900	111	INM2-420D240221	C34C(I=28)
IYJP34-90	90	12	26	13.5	11900	111	INM2-420D240221	C34C(I=28)
IYJP34-100	100	12	28	15	11900	111	INM2-420D240221	C34C(I=28)

Note: When the neutral position function of 3/4 directional valve is "O" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.



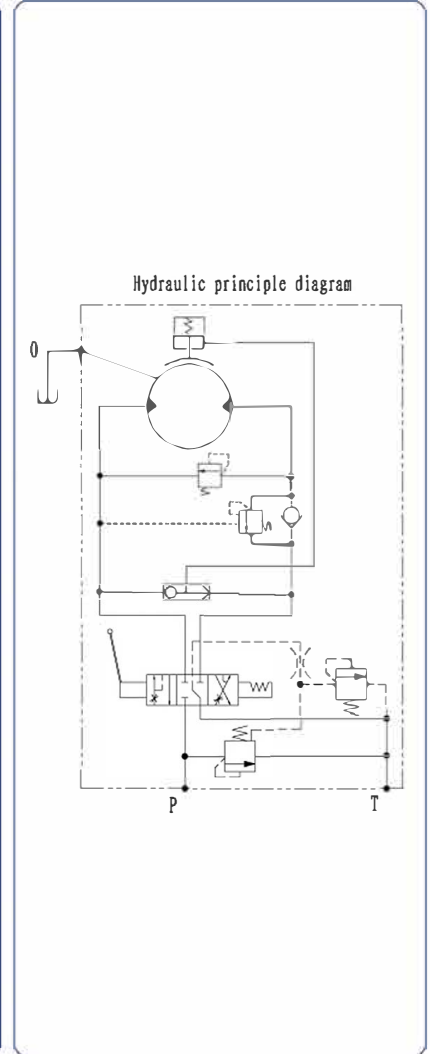
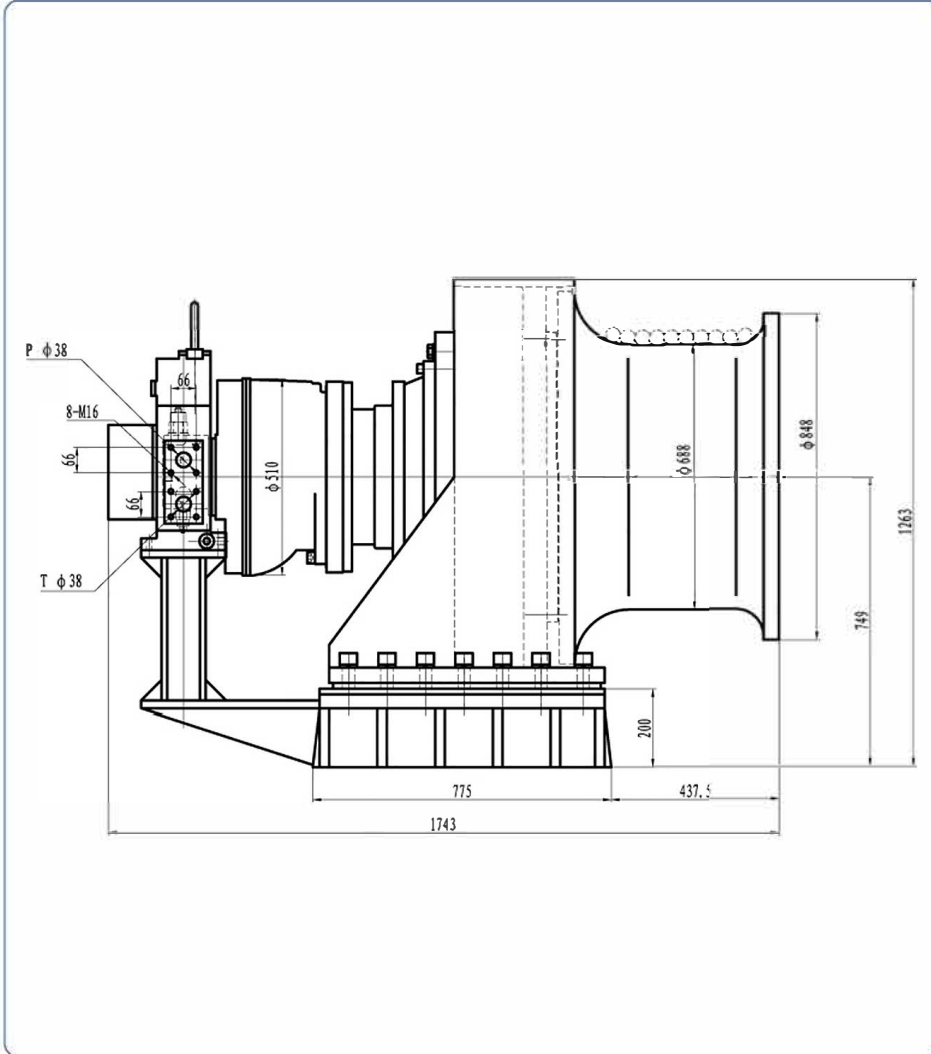
IYJP45



型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP45-120	120	12	30	14	17248	138	INM4-600D90+F480221	C45(I=28)
IYJP45-140	140	12	32	16	17248	138	INM4-600D90+F480221	C45(I=28)
IYJP45-150	150	12	32	14	22204	177	INM4-800D90+F480221	C45(I=28)
IYJP45-160	160	12	34	15	22204	177	INM4-800D90+F480221	C45(I=28)

Note: When the neutral position function of 3/4 directional valve is "O" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.

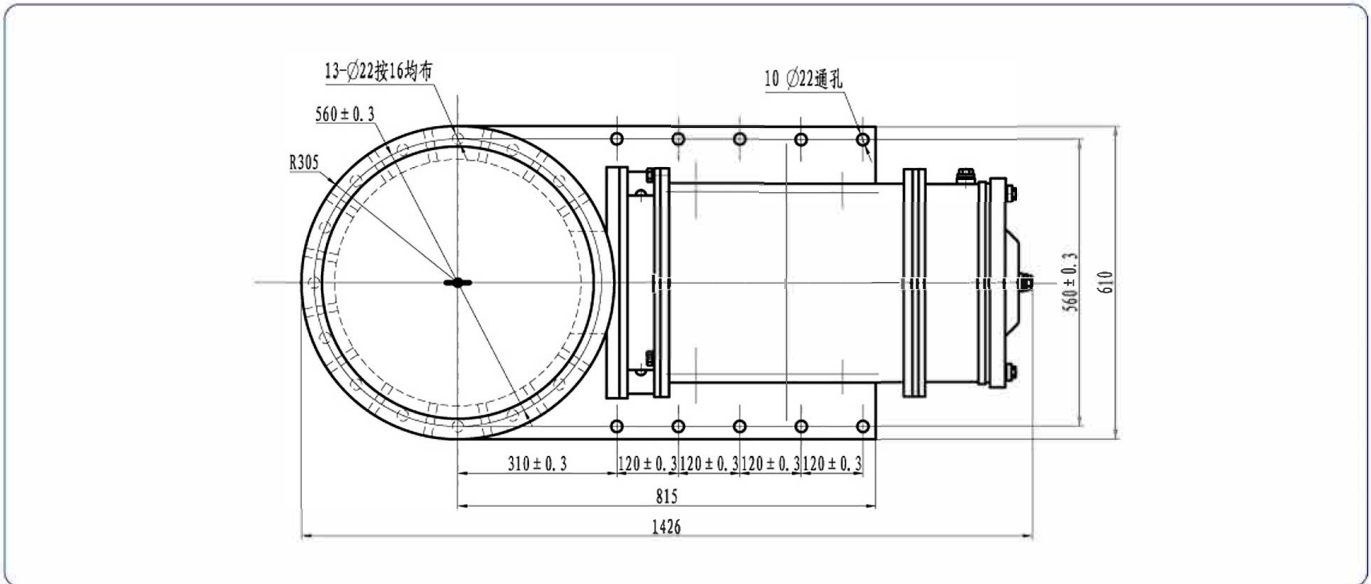
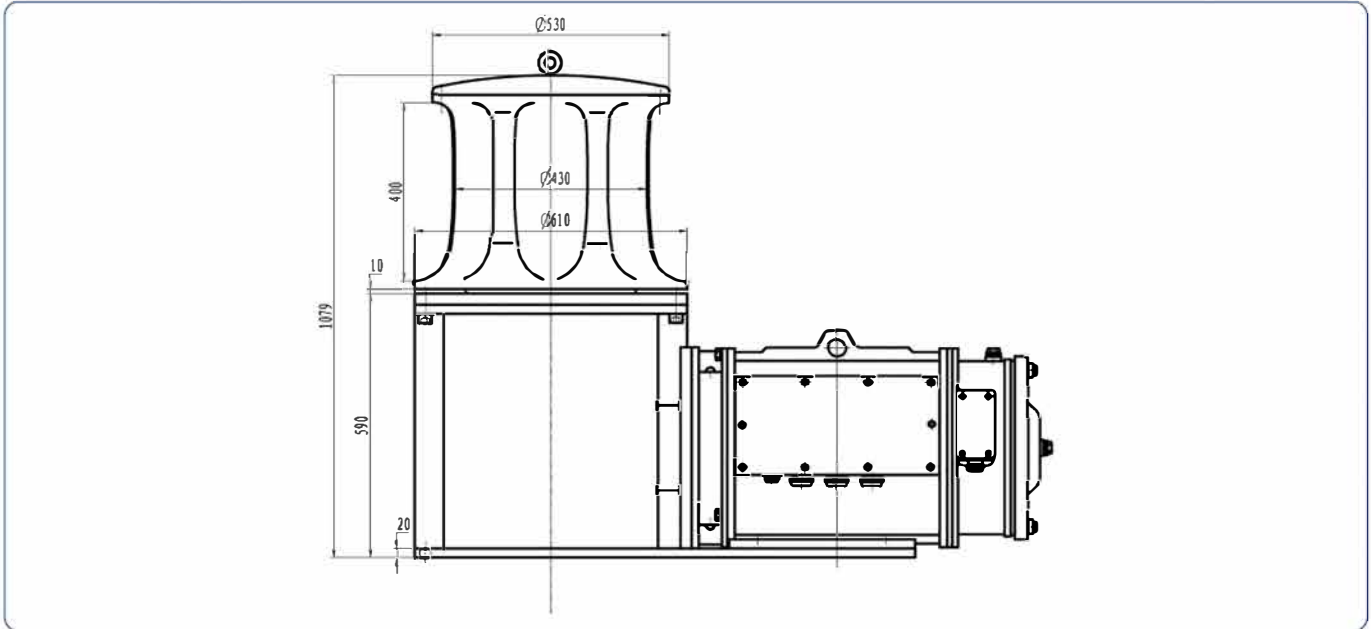
IYJP79



型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP79-240	240	10	36	14	46794	229	INM6-2000D90+F	C79 (I=22)
IYJP79-260	260	10	36	13	55286	270	INM6-2500D90+F	C79 (I=22)
IYJP79-280	280	10	38	11.5	66902	326	INM6-3000D90+F	C79 (I=22)
IYJP79-300	300	10	38	12.5	66902	326	INM6-3000D90+F	C79 (I=22)

Note: When the neutral position function of 3/4 directional valve is "O" or "M" type, crossover relief valve should be setted between hydraulic motor and bi-counterbalance valve.

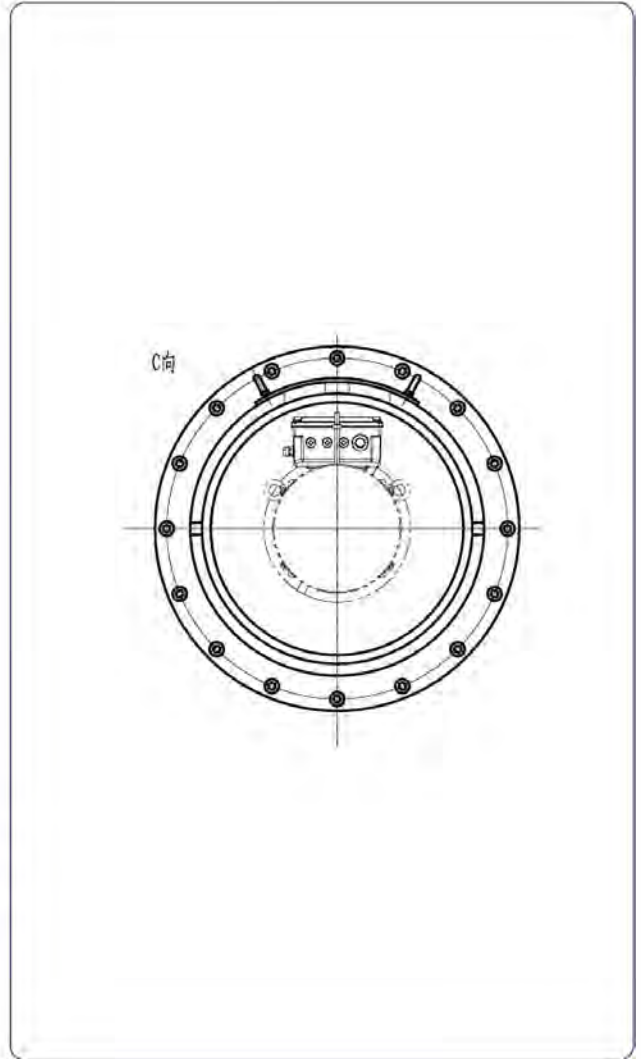
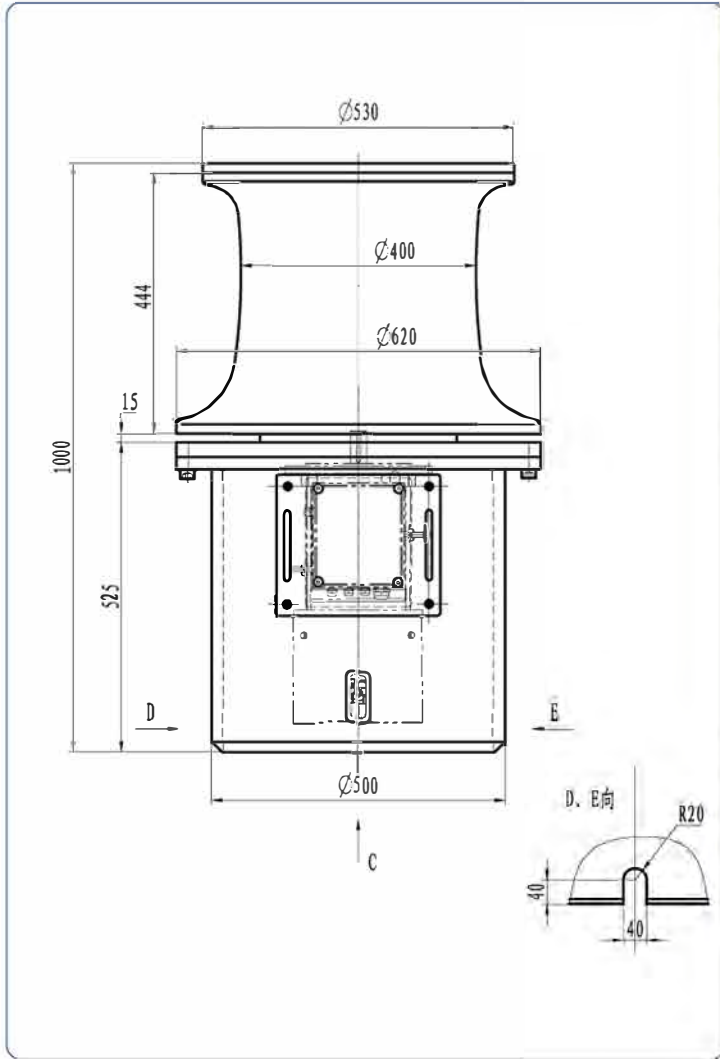
IDJP23



型号 Model	系统负载 System load (kN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器 传动比 Ratio	电机功率 Power (kW)
					电压 (V) Volt (V)	频率 (Hz) Frequency (Hz)		
IDJP23-25/50	25/50	38.5/18.5	36	YZ225S-4/8-H	380	50	53.95	16.8/16.8

Note: 1.The dimension of general electric motor is included in above installation drawing.
If fitted electric motor is specific, the connection dimension is also changed.

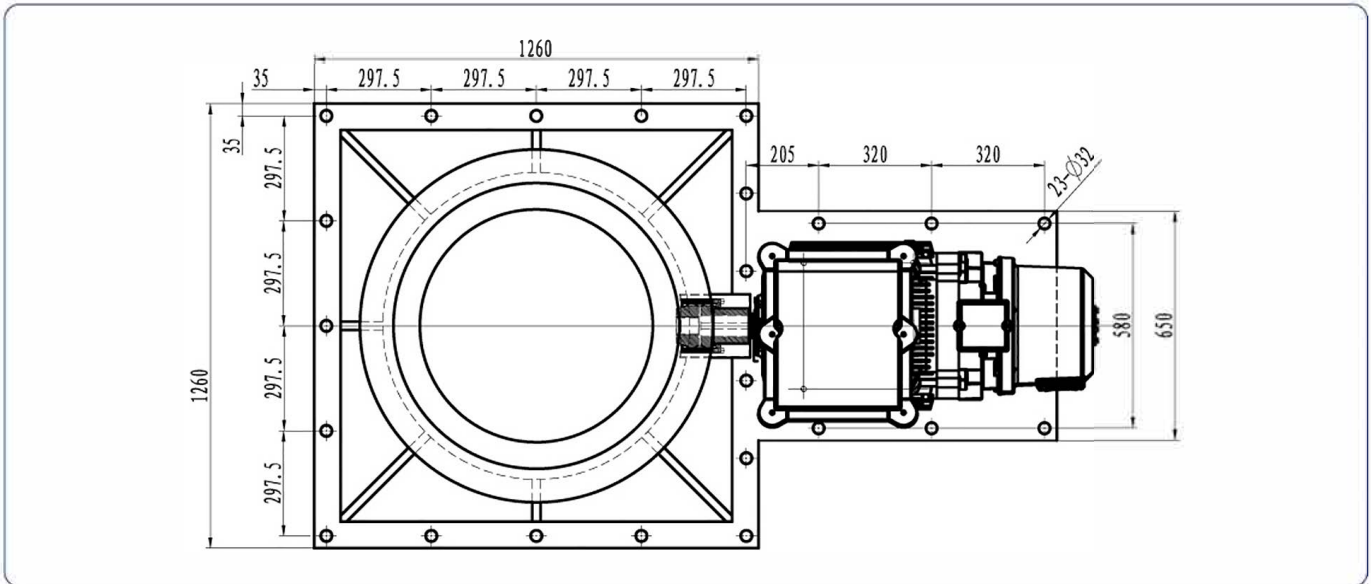
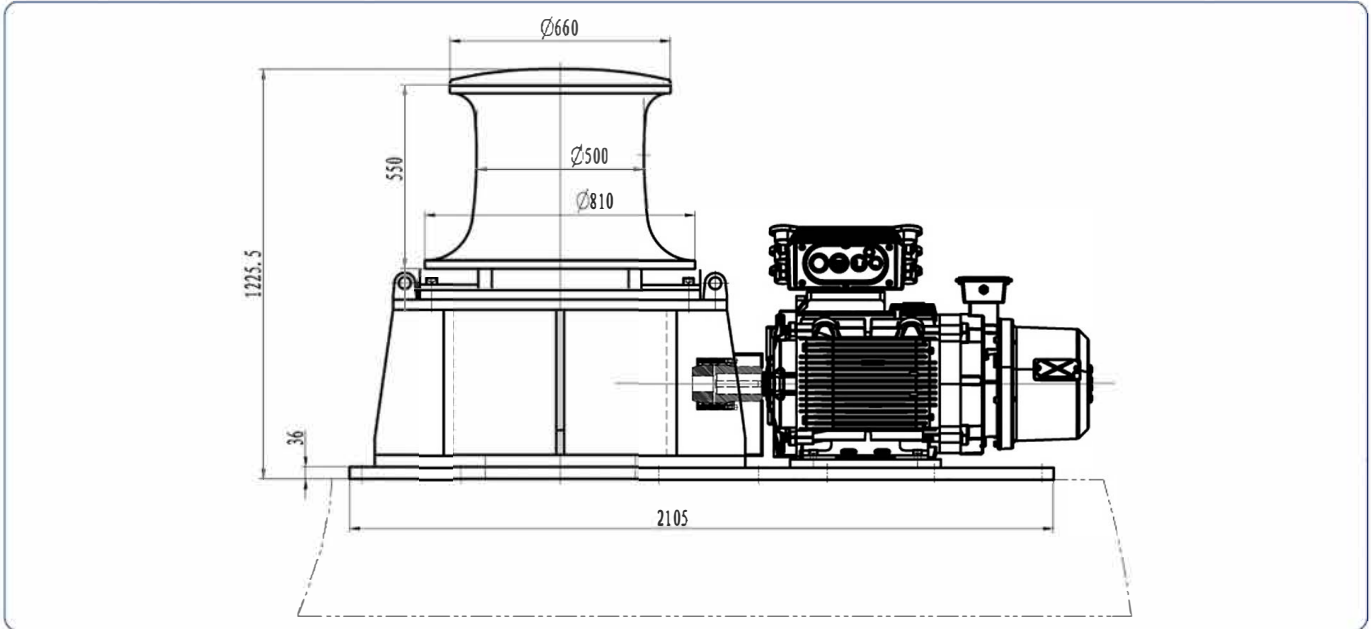
IDJP222



型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	电机型号 Model of electromotor	电机 Parameter of electromotor		减速器 传动比 Ratio	电机功率 Power (KW)
					电压 (V) Volt (V)	频率 (Hz) Frequency (Hz)		
IDJP222-9.8	9.8	15	40	LS112	380	60	163	3

Note: 1.The dimension of general electric motor is included in above installation drawing.
If fitted electric motor is specific, the connection dimension is also changed.

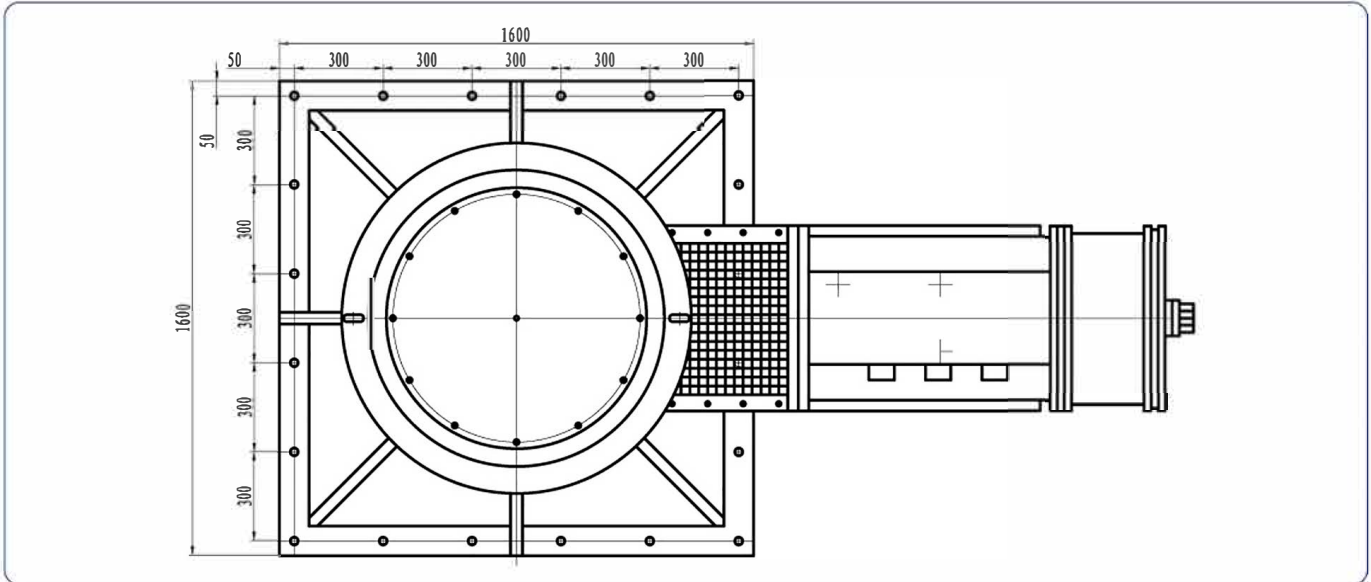
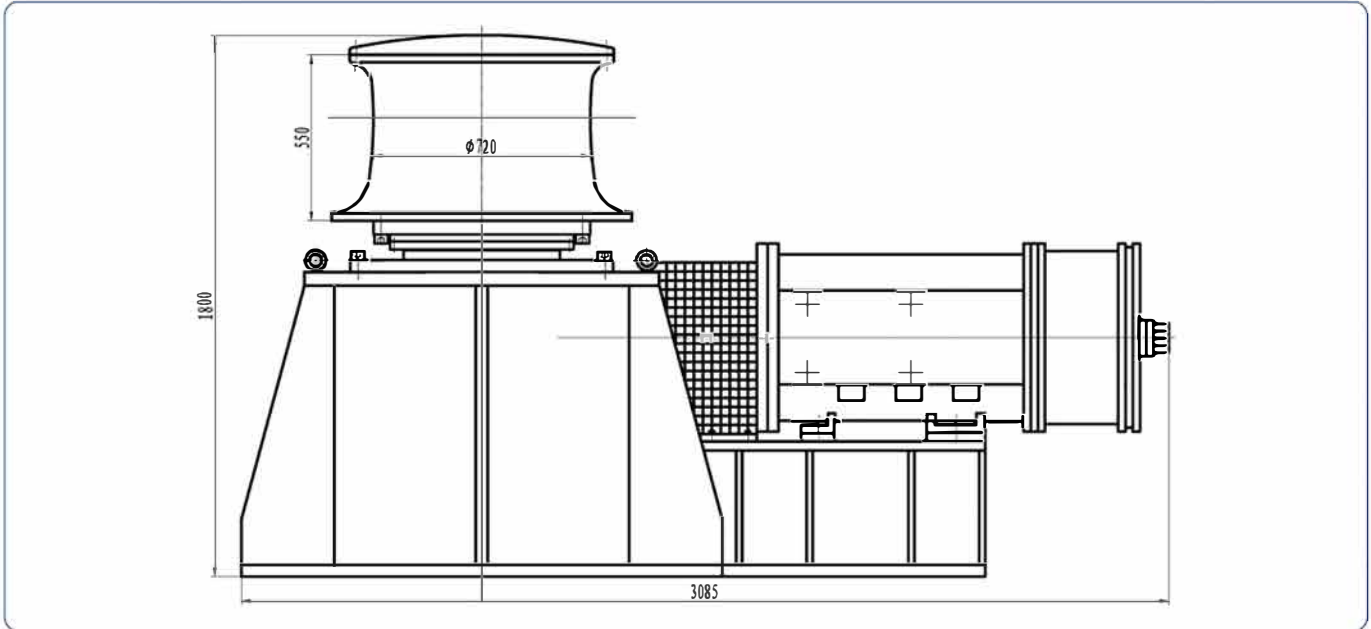
IDJP445



型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器 传动比 Ratio	电机功率 Power (KW)
					电压 (V) Volt (V)	频率 (Hz) Frequency (Hz)		
IDJP445-98	98	25	36	FLS255M	440	60	116.325	51

Note: 1.The dimension of general electric motor is included in above installation drawing.
If fitted electric motor is specific, the connection dimension is also changed.

IDJP899



型号 Model	系统负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器 传动比 Ratio	电机功率 Power (KW)
					电压 (V) Volt (V)	频率 (Hz) Frequency (Hz)		
IDJP889-300	300	20	40	YZ315L-4/8/16-H	415	50	89	135

Note: 1.The dimension of general electric motor is included in above installation drawing.
 If fitted electric motor is specific,the connection dimension is also changed.

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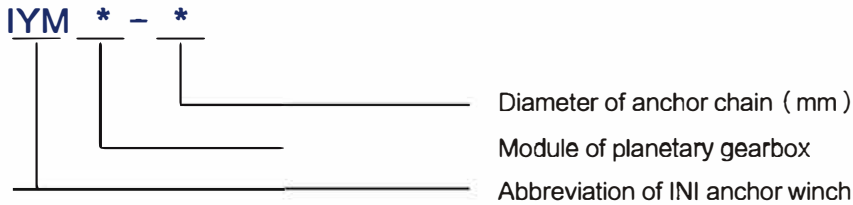
● IYM series hydraulic anchor winch

1. Brief introduction

IYM series hydraulic anchor winches consist of valve block with braking and overload protection function, hydraulic motor, planetary gearbox, hydraulic/manual band brake, hydraulic/manual jaw clutch, frame and etc.

The winch is fitted with valve block. It not only simplifies the hydraulic system, but also improves the reliability of transmission drive, makes the winches running smoothly during hoisting and lowering. In addition, the winches feature high start-up efficiency and working efficiency, low noise and energy consumption, and compact design and good economic value. They have been widely used on various vessels.

2. Model options

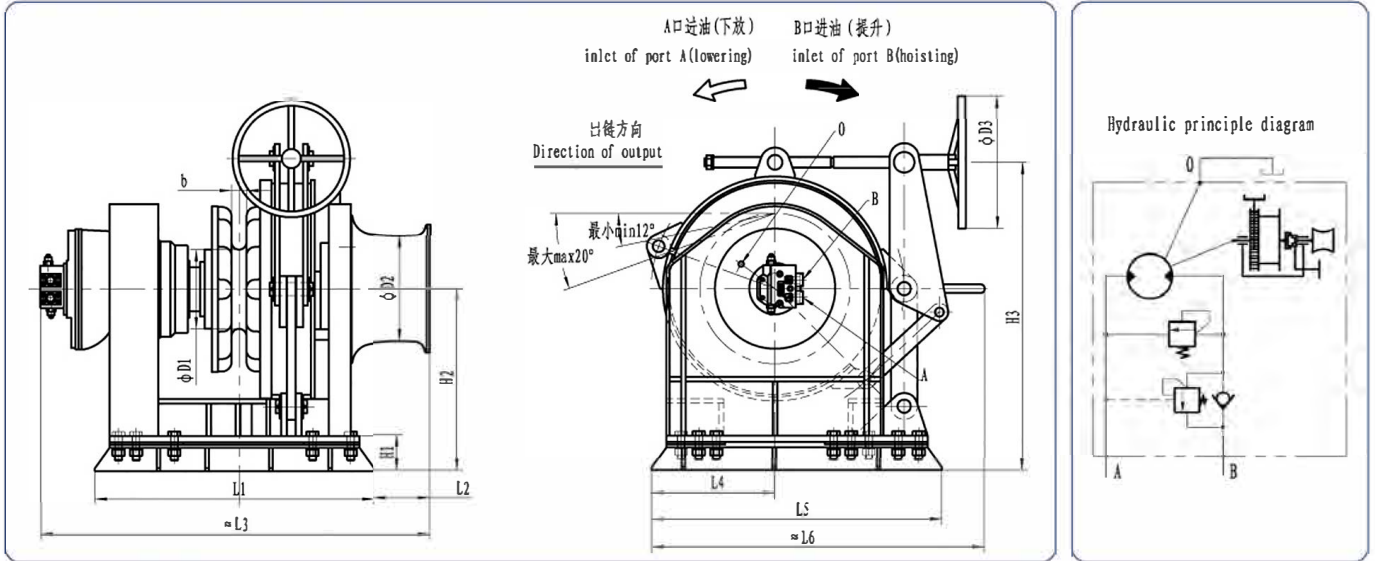


3. Example:

Model no IYM4- φ32 means the module of the planetary gearbox is 4, and diameter of anchor chain is 32mm.



● IYM

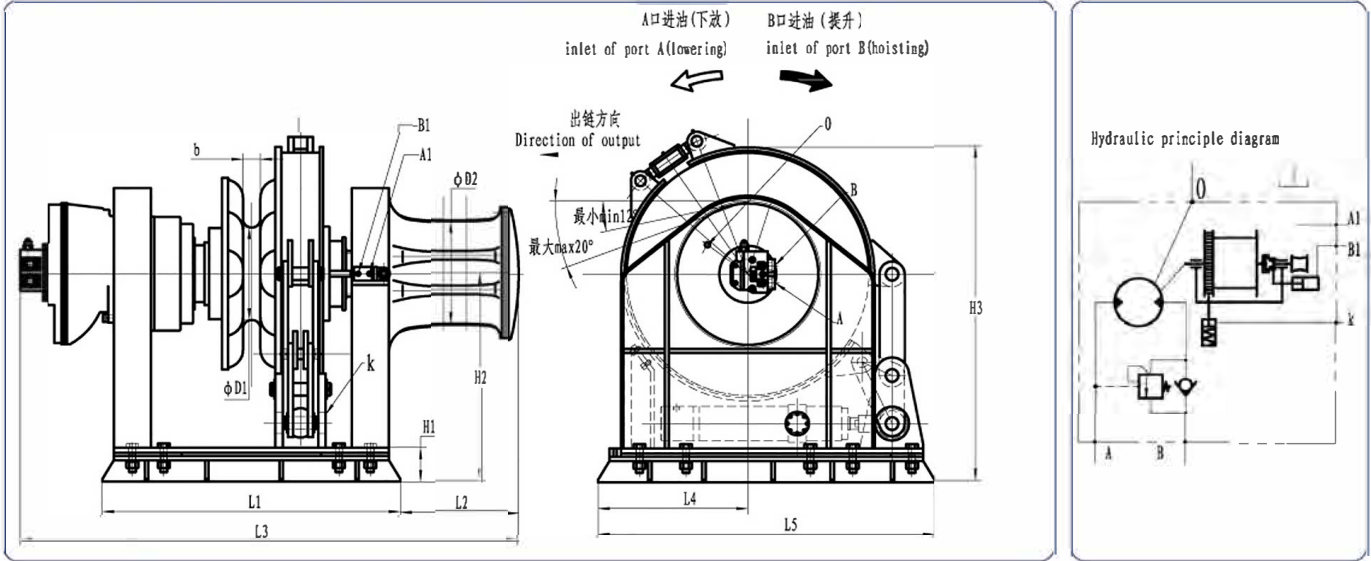


型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM2.5- $\phi 16$	10.9	16.4	≥ 67	≥ 9	≤ 82.5	860.5	16	20	16
IYM2.5- $\phi 17.5$	13	19.5	≥ 80	≥ 9	≤ 82.5	1050.5	15	14	17.5
IYM3- $\phi 22$	20.6	30.9	≥ 126	≥ 9	≤ 82.5	3107.5	15	31	22
IYM4- $\phi 30$	38.3	57.5	≥ 231	≥ 9	≤ 82.5	6580	14	46	30

型号 model	$\phi D1$ (mm)	$\phi D2$ (mm)	$\phi D3$ (mm)	b (mm)	$L1$ (mm)	$L2$ (mm)	$L3$ (mm)	$L4$ (mm)	$L5$ (mm)	$L6$ (mm)	$H1$ (mm)	$H2$ (mm)	$H3$ (mm)	0	A. B
IYM2.5- $\phi 16$	144	200	250	28	570	196	895	220	515	620	90	335	550	G1/4"	M22x1.5
IYM2.5- $\phi 17.5$	157	200	250	31	570	196	895	220	515	620	90	335	550	G1/4"	M22x1.5
IYM3- $\phi 22$	198	300	280	39	705	182	1052	280	645	750	115	425	694	G1/2"	M22x1.5
IYM4- $\phi 30$	270	360	450	51	950	191	1327	420	990	1050	120	620	1050	G1/2"	$\phi 35$



● IYM

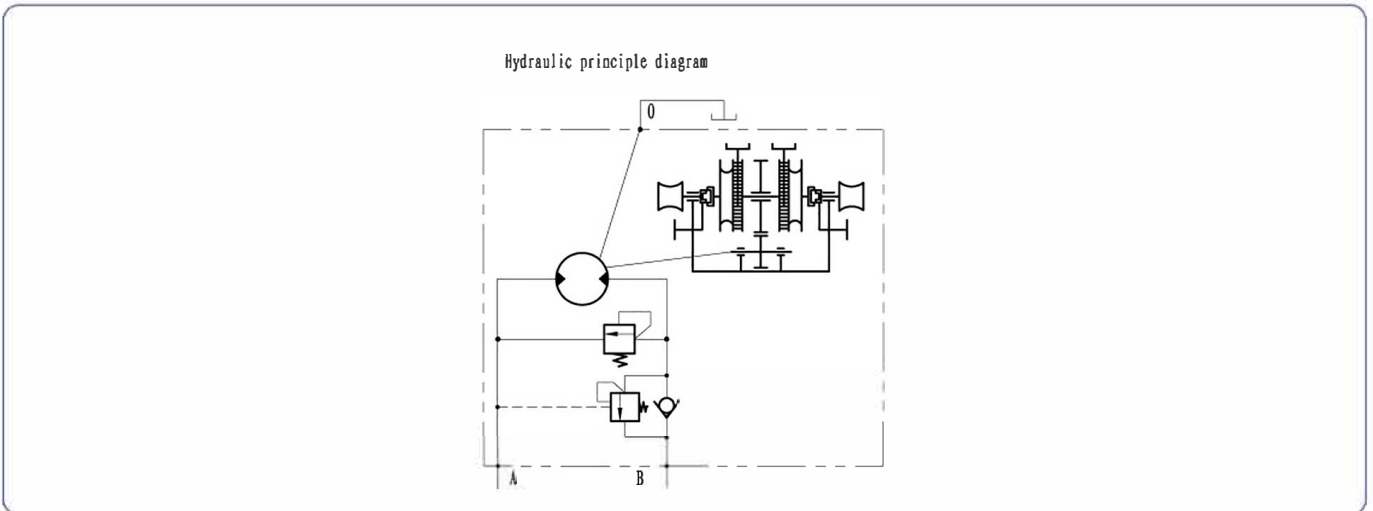
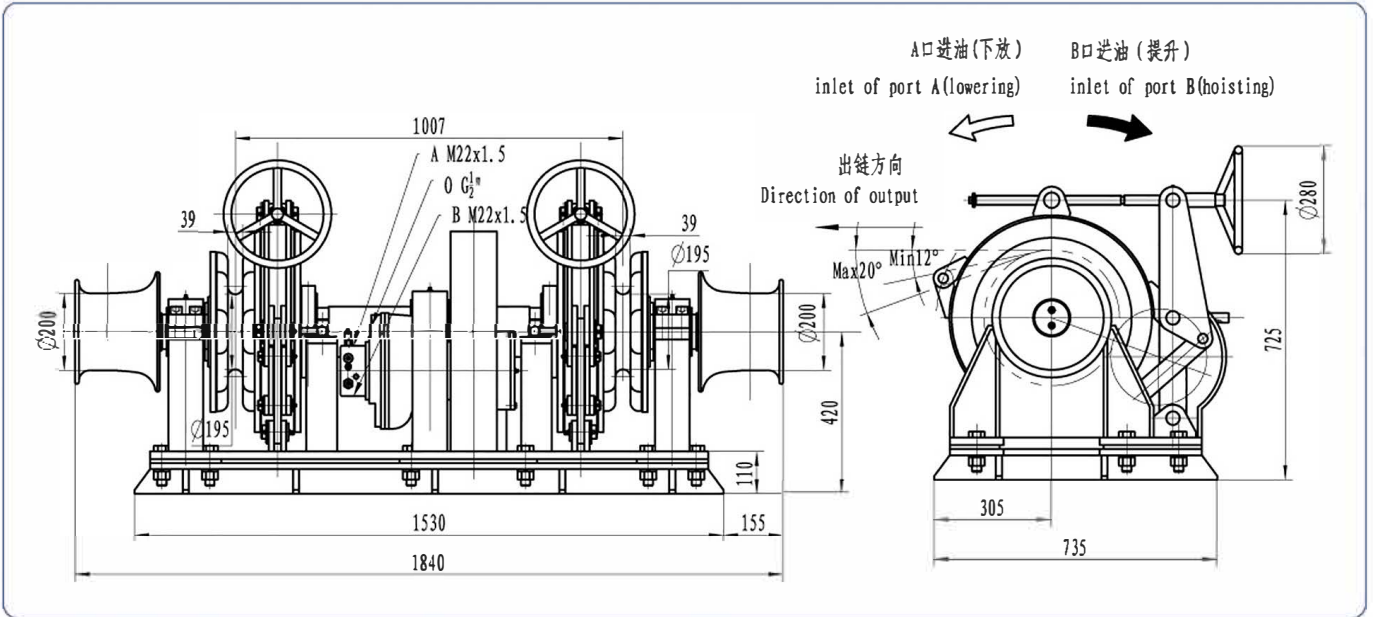


型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM4-φ32	43.5	65.3	≥261	≥9	≤82.5	8170	12.5	53	32
IYM4-φ34	49.1	73.7	≥294	≥9	≤82.5	8987	12.5	55	34
IYM5-φ36	55.1	82.7	≥329	≥9	≤82.5	10035	14	60	36
IYM5-φ38	61.1	92.1	≥365	≥9	≤82.5	12560	14	70	38
IYM6-φ40	68	102	≥402	≥9	≤82.5	13821.5	14	72	40
IYM6-φ42	75	112.5	≥442	≥9	≤82.5	16725.5	14	83	42

型号 model	φ1 (mm)	φ2 (mm)	b (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	K	A1、B1	O	A、B
IYM4-φ32	288	350	54	932	264	1470	460	1040	120	640	1022	M22x1.5	M14x1.5	G1/2"	φ35
IYM4-φ34	306	360	58	936	264	1474	460	1040	120	640	1022	M22x1.5	M14x1.5	G1/2"	φ35
IYM5-φ36	325	360	61	1045	421	1748	525	1180	120	730	1180	M22x1.5	M14x1.5	G1/2"	φ35
IYM5-φ38	342	360	64	1050	421	1805	525	1180	120	730	1180	M22x1.5	M14x1.5	G1/2"	φ35
IYM6-φ40	360	430	67	1091	421	1850	605	1350	120	805	1330	M22x1.5	M14x1.5	G1/2"	φ35
IYM6-φ42	378	430	70	1094	421	1853	605	1350	120	805	1330	M22x1.5	M14x1.5	G1/2"	φ35



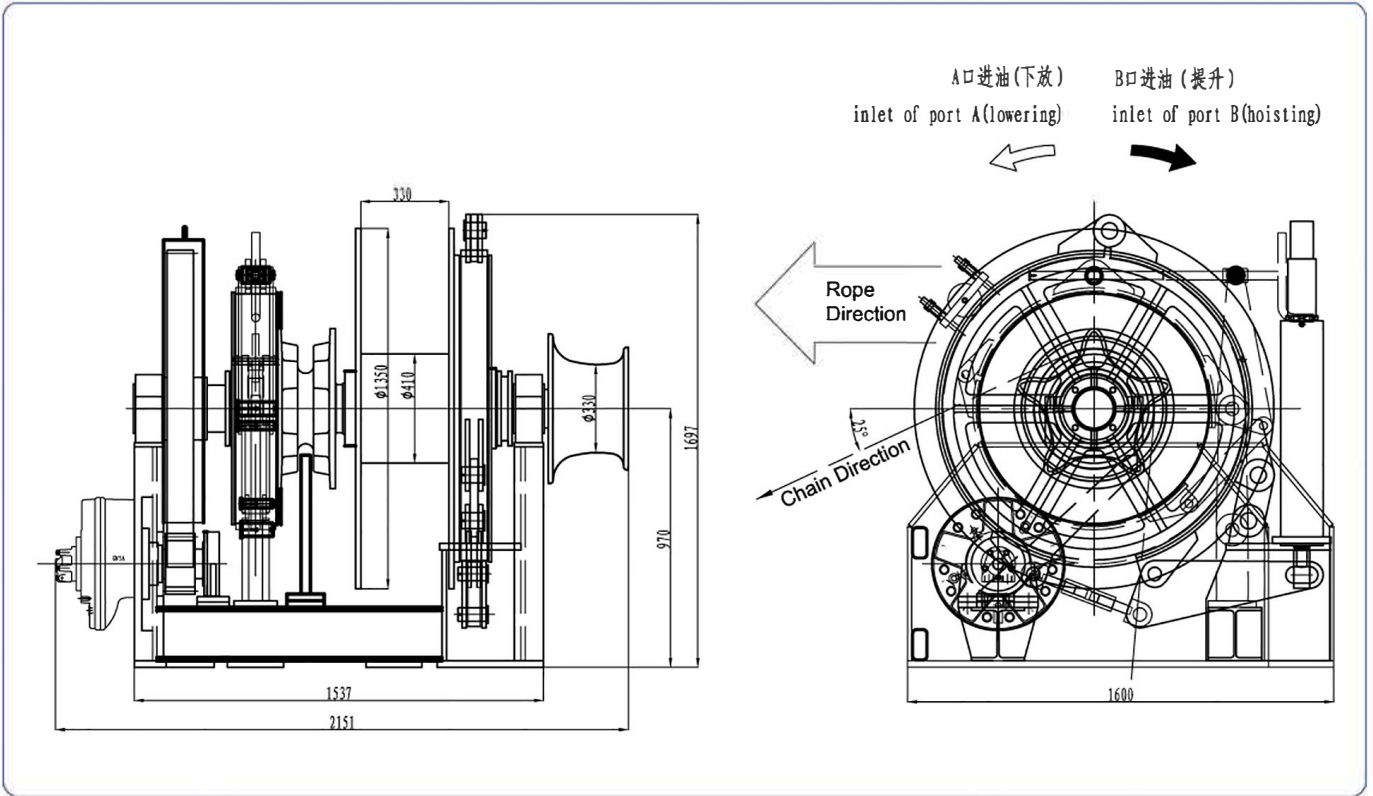
● IYM8-2xφ22x6



型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM8-2xφ22x6	20.6	30.9	≥126	≥9	≤82.5	1938	17	31	22



● IYM ϕ 36



chain main Specification

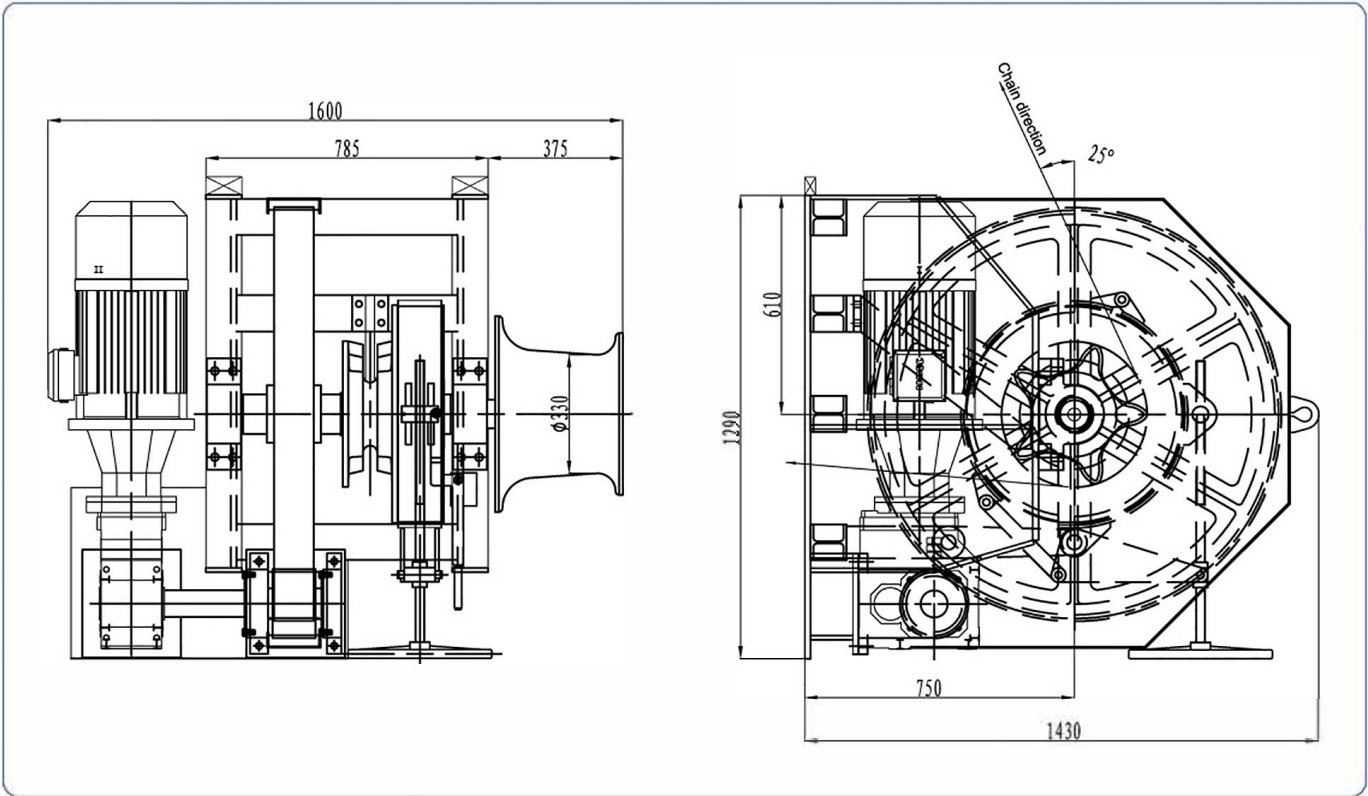
额定负载 Rate Load (kN)	100
功率 Power (Kw)	20
支撑负载 Hold On Load (kN)	340
锚链速度 Chain Speed (m/min)	12
锚链直径 Chain Diameter (mm)	36
额定压力 Rated Pressure (MPa)	20
液压马达型号 Hydraulic Motor Type	CMS-1600

Winch main Specification

第一层拉力 Rated working pull 1st layer (kN)	100
第一层绳速 Speed 1st layer (m/min)	15
系统压力 System rated pressure (MPa)	20
钢丝绳直径 Diameter of rope (mm)	36
层数 Number of rope layers	100
容绳量 Capability of drum (m)	220
供油流量 Pump flow (L/min)	100 ($\eta v=0.9$)



● IDM

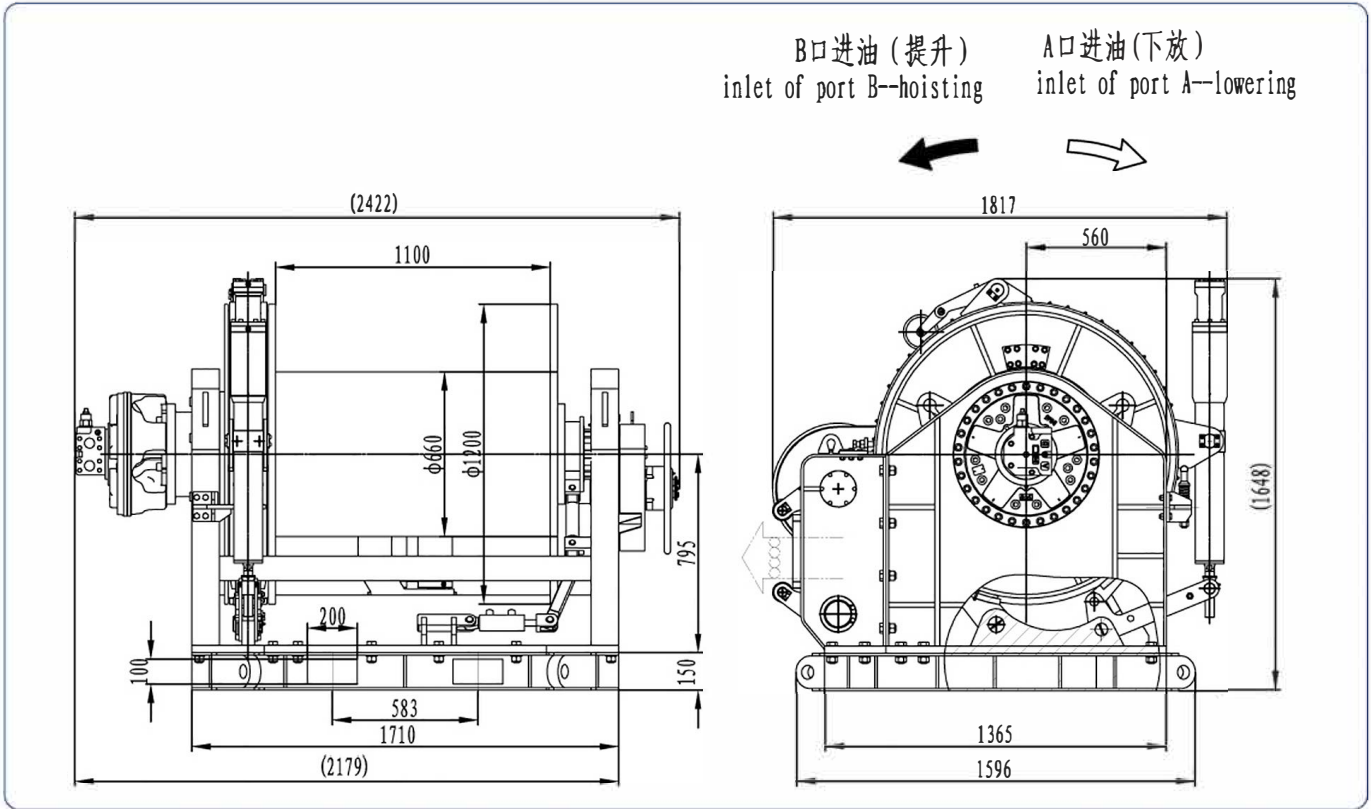


chain main Specification

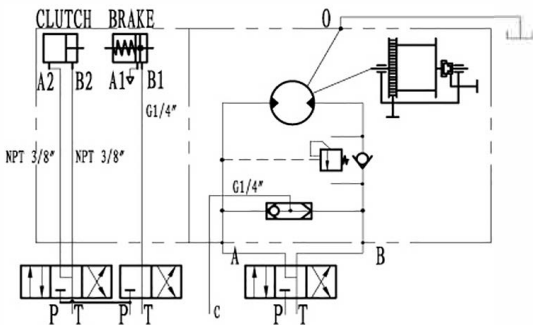
额定负载 Rate Load (kN)	24.5
功率 Power (Kw)	7.5
最大负载 OverLoad (kN)	36
支撑负载 Hold On Load (kN)	15.2
锚链速度 Chain Speed (m/min)	10
锚链直径 Chain Diameter (mm)	24 (AM2)
电机 Electric Motor	7.5KV (415/ 3ph/50HZ)



IYJ56-200-268-41-C-PDL



Hydraulic principle diagram

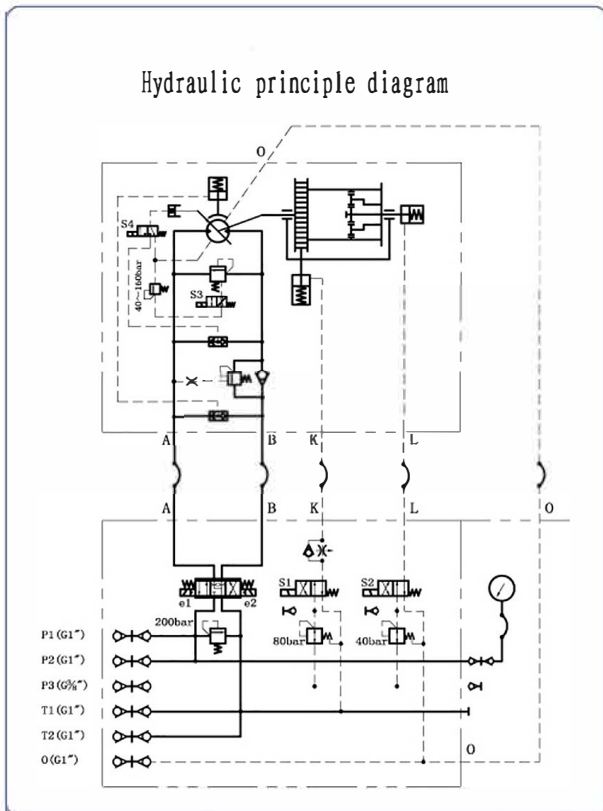
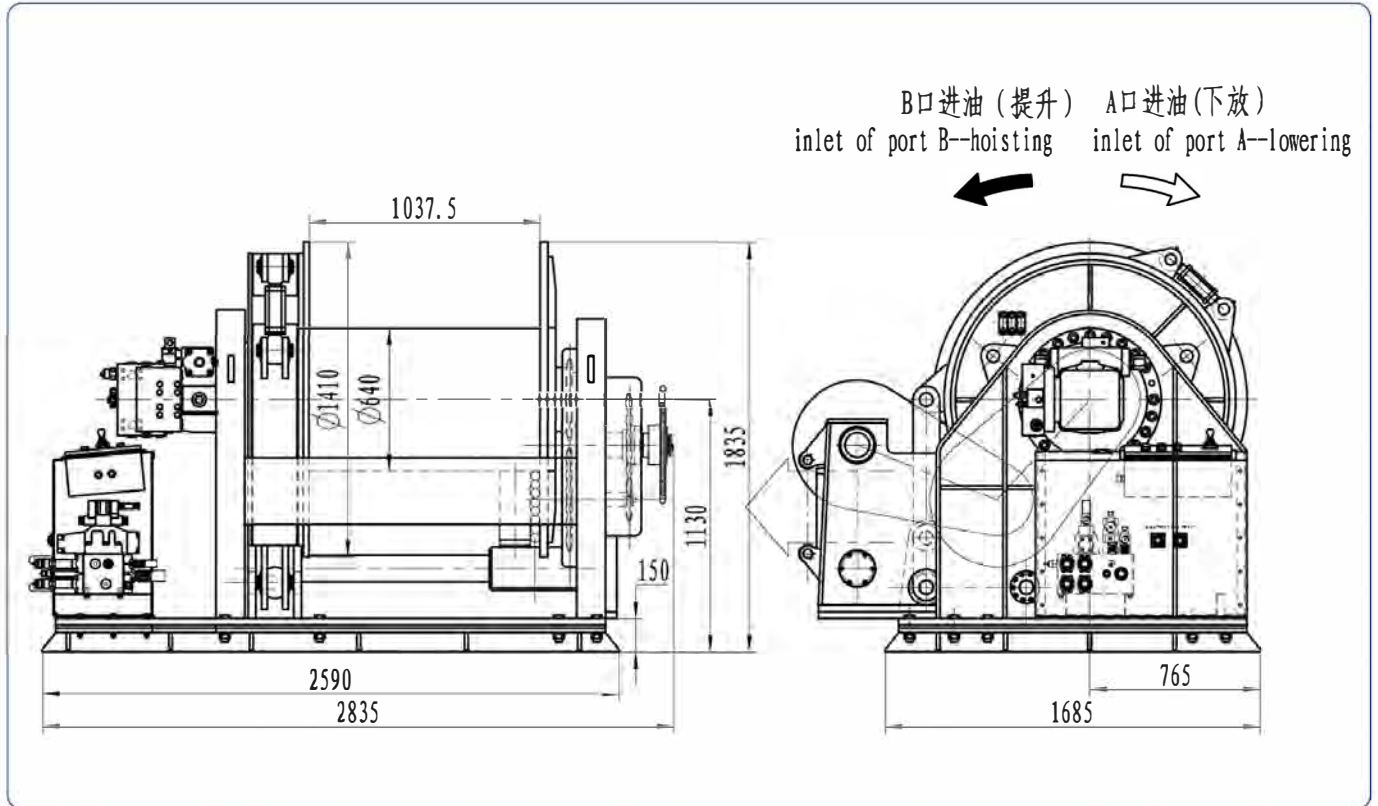


Winch main Specification

第一层拉力	Rated working pull 1st layer (kN)	200
第一层绳速	Speed 1st layer (m/min)	12
总排量	Drum displacement (mL/r)	40936
系统压力	System rated pressure (MPa)	15.5
钢丝绳直径	Diameter of rope (mm)	41
层数	Number of rope layers	4
容绳量	Capability of drum (m)	268
供油流量	Pump flow (L/min)	248 ($\eta v=0.9$)
液压马达型号	Hydraulic motor type	INM5-1450D480101
减速器型号	Planetary gearbox type	C56 (i=28)



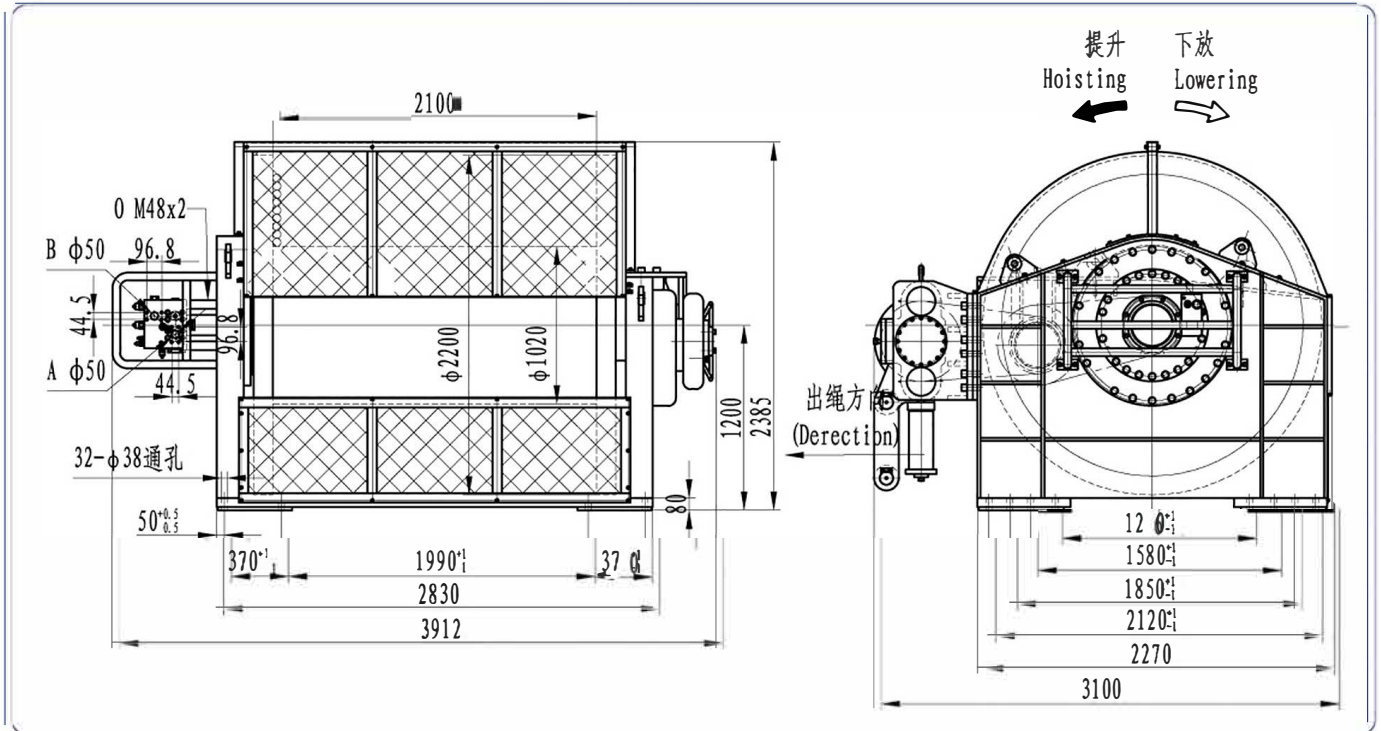
IYJ477-500-600-40-ZPDLB



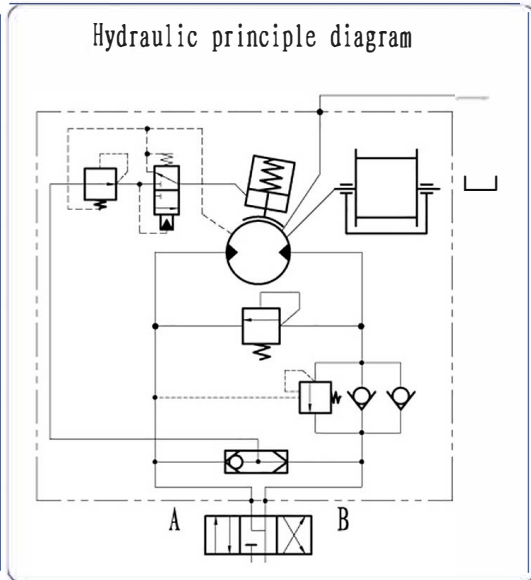
Winch main Specification

第一层额定拉力 Rated working pull on first layer(t)	50	35
第一层绳速 Nominal speed at first layer(m/min)	5.3	7
卷筒排量 Drum displacement (L/r)	62.75	47.188
支持负载 Support load (t)	100	
系统额定压力 System rated pressure(Bar)	235	
钢丝绳直径 Diameter of rope(mm)	40 ^{+0.8} ₀	
层数 Number of rope layers	8	
容绳量 Capability of drum(m)	600	
泵供油流量 Pump flow(L/min)	173 ($\eta v=0.9$)	
液压马达型号 Hydraulic motor type	HL-A4VSM250DZ/30W-VZB10N00-YN	
减速器型号 Planetary gearbox type	IGC180W3-B251-A4VSM250 (i 251)	

800KN Winch



Hydraulic principle diagram

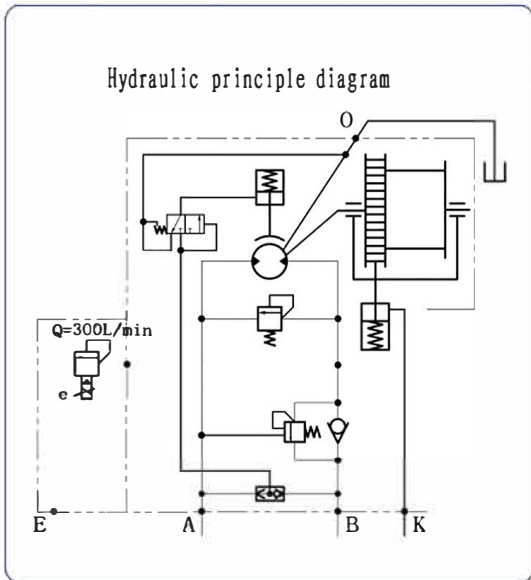
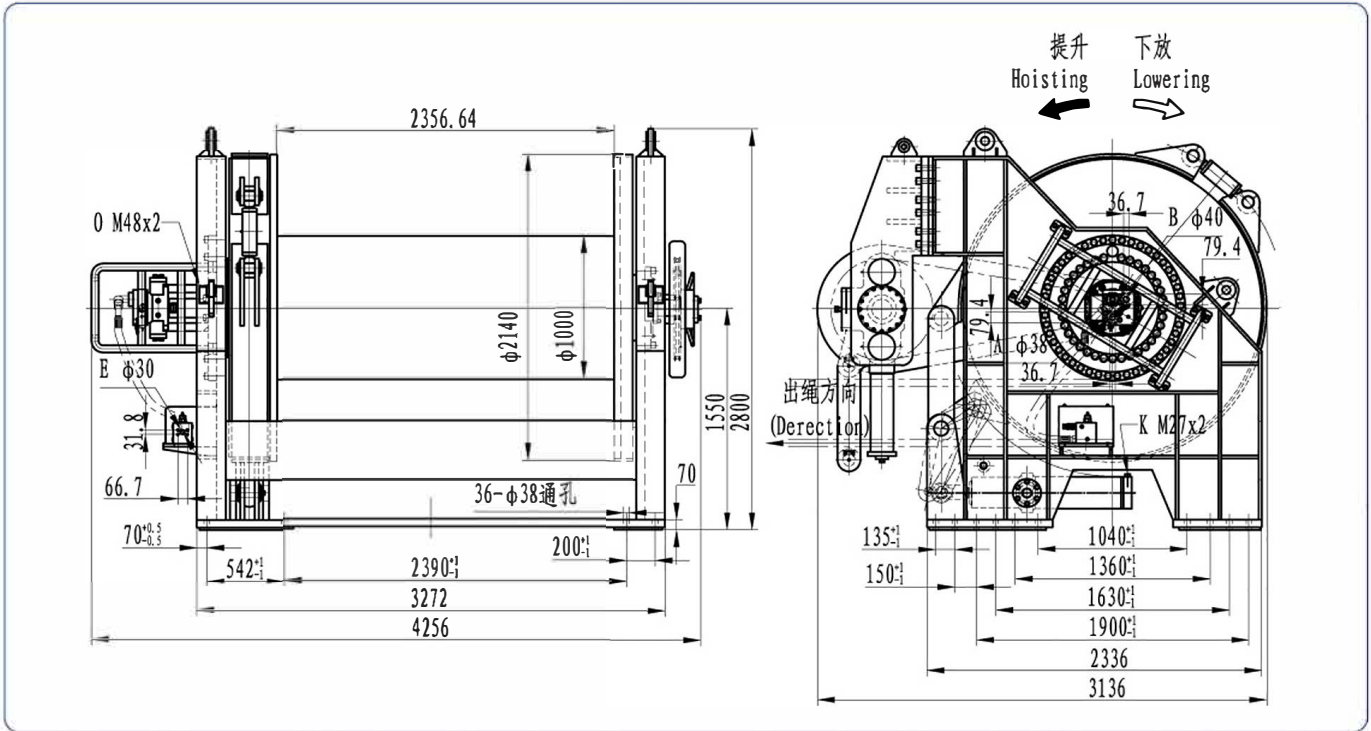


Main Specification

第一层额定拉力 Rated full on the 1st layer (kN)	800
第一层额定绳速 Rated speed on the 1st layer (m/min)	20
卷筒总排量 Total displacement (mL/r)	129650
系统额定压力 System pressure (MPa)	28
液压马达工作压差 Diff. pressure (MPa)	26
适用钢丝绳直径 Rope diameter (mm)	52
钢丝绳层数 Number of rope layers	9
容绳量 Drum capacity (m)	1600
泵的理论流量 Pump flow (L/min)	856
马达型号 Motor type	HL-A4FMS00-02
减速机型号 Gearbox type	IGCS50W3-B259 (i=259.3)

- Note:
- Total displacement represents the capacity of oil supply per revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 90 percent.
 - Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - The reducing valve should be set in brake control circuit if system pressure is above 16MPa. When return oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
 - Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

100KN Winch



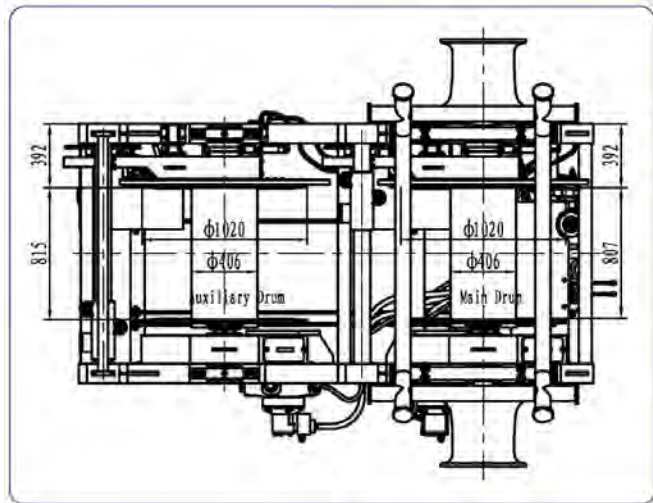
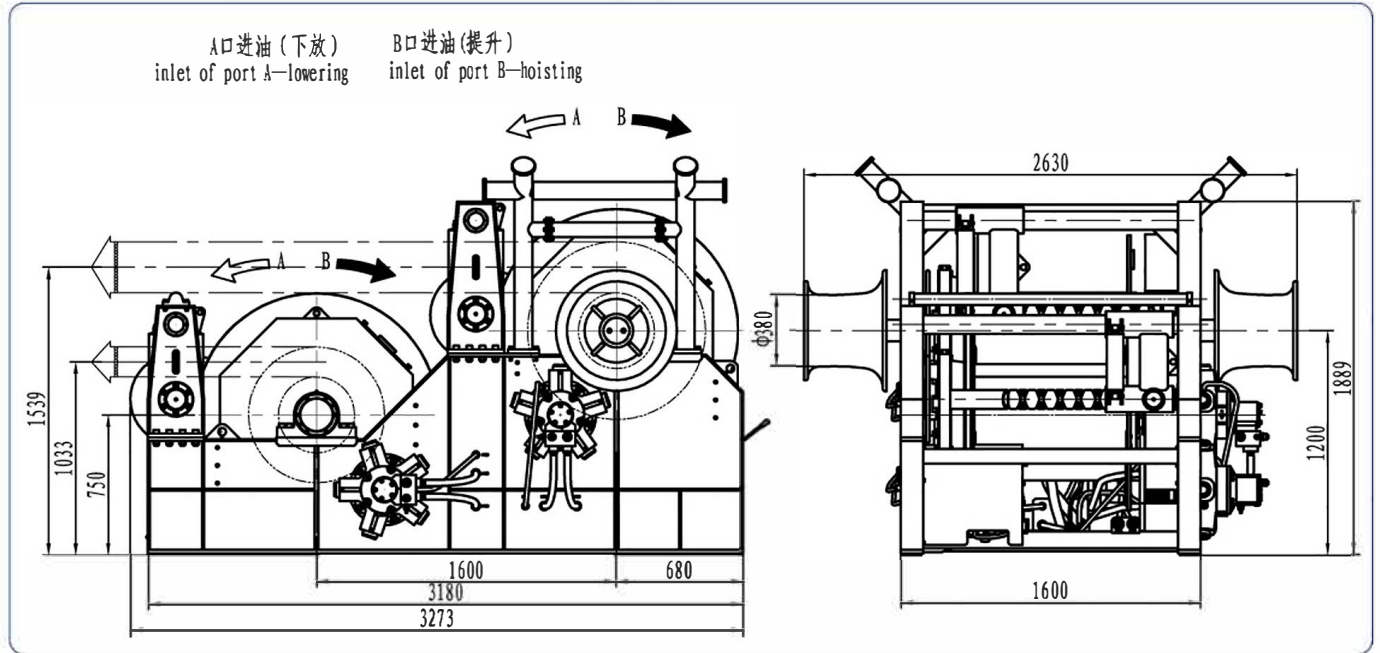
Main Specification

第一层额定拉力 Rated full on the 1st layer (kN)	1000
第一层额定绳速 Rated speed on the 1st layer (m/min)	7
卷筒总排量 Total displacement (mL/r)	131500
系统额定压力 System pressure (MPa)	35
液压马达工作压差 Diff. pressure (MPa)	32
适用钢丝绳直径 Rope diameter (mm)	52
钢丝绳层数 Number of rope layers	9
容绳量 Drum capacity (m)	1800
泵的理论流量 Pump flow (L/min)	300
马达型号 Motor type	HL-A4FM500-01
减速机型号 Gearbox type	IGC550W3-B263 (i=263)

- Note:
- Total displacement represents the capacity of oil supply per revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 90 percent.
 - Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - The reducing valve should be set in brake control circuit if system pressure is above 16MPa. When return oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
 - Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

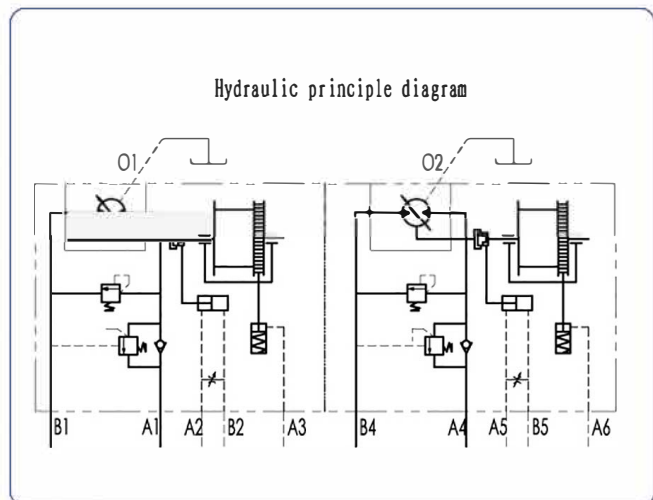


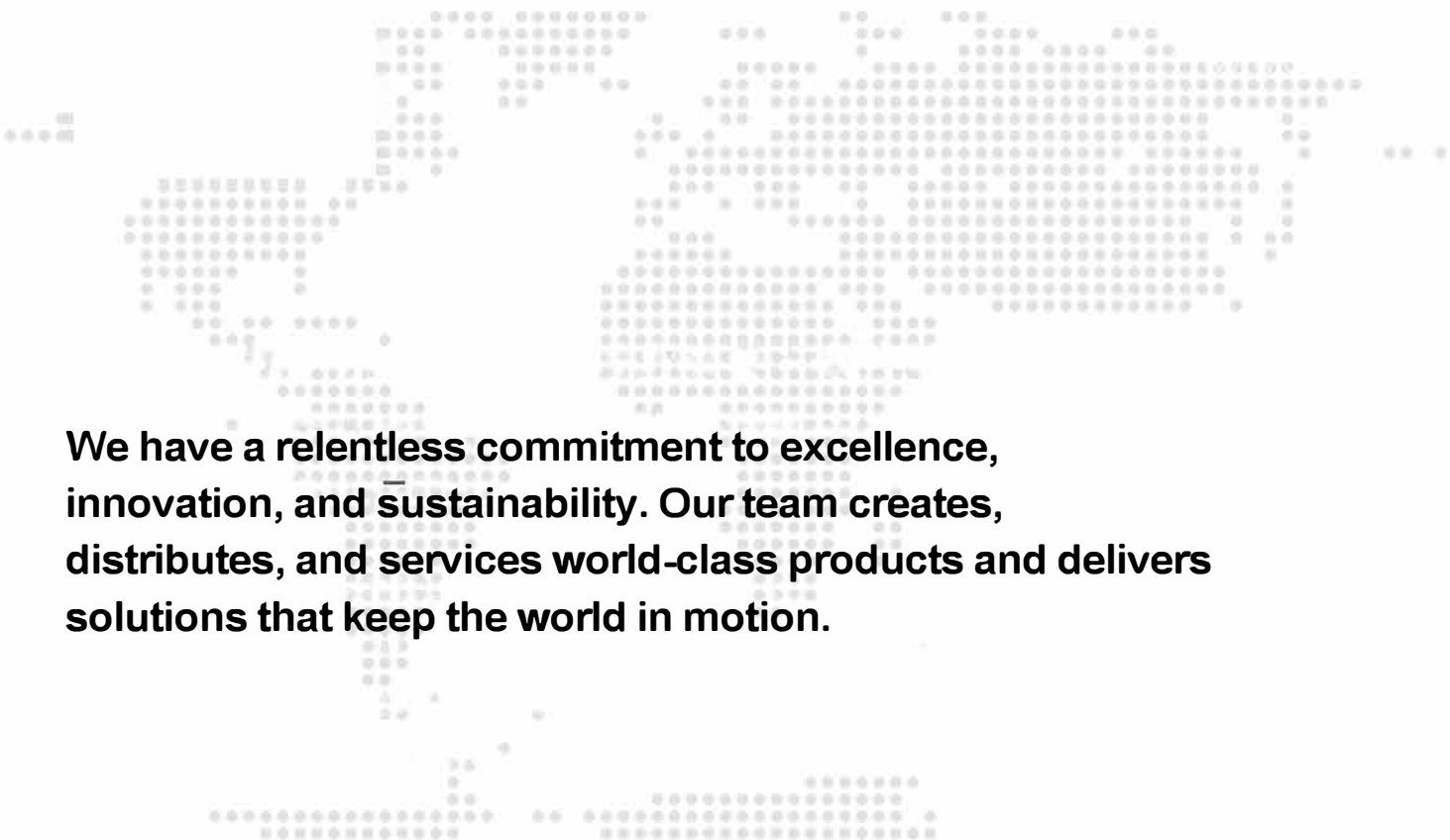
IYJ12-60-1700/800-16-ZLP-JP380



Winch main Specification

	主卷筒 Main Drum		辅卷筒 Auxiliary Drum	
	高速 High Speed	低速 Low Speed	高速 High Speed	低速 Low Speed
平均拉力 Average working pull (kN)	30	60	30	60
平均绳速 Average Speed (m/min)	50	25	50	25
总排量 Drum displacement (mL/r)	9388	18774	9388	18774
系统压力 System rated pressure (MPa)	24			
钢丝绳直径 Diameter of rope (mm)	16			
层数 Number of rope layers	17		10	
容绳量 Capability of drum (m)	1700		800	
供油流量 Pump flow (L/min)	394 ($\eta v=0.9$)			
液压马达型号 Hydraulic motor type	IMC100-1600/800-S2 (2x)			
第一层制动力 (静态) kN Brake Holding @1st layer	60kN (static)			
传动比 Ratio	5.941			





We have a relentless commitment to excellence, innovation, and sustainability. Our team creates, distributes, and services world-class products and delivers solutions that keep the world in motion.

North America Sales Rep:
ZEIUSA LLC
www.zeiusa.com
info@zeiusa.com
+1 716-288-8317



info@zeiusa.com www.zeiusa.com ZEIUSA LLC