

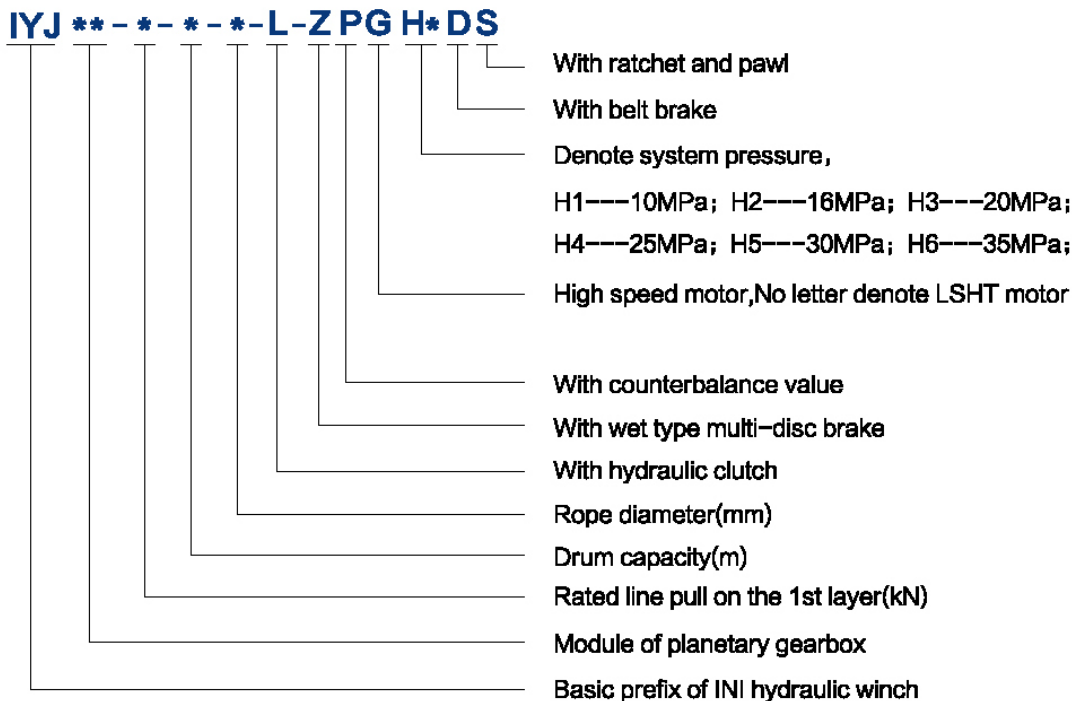
● IYJ-L Series Hydraulic Winch with Free Fall Function

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.

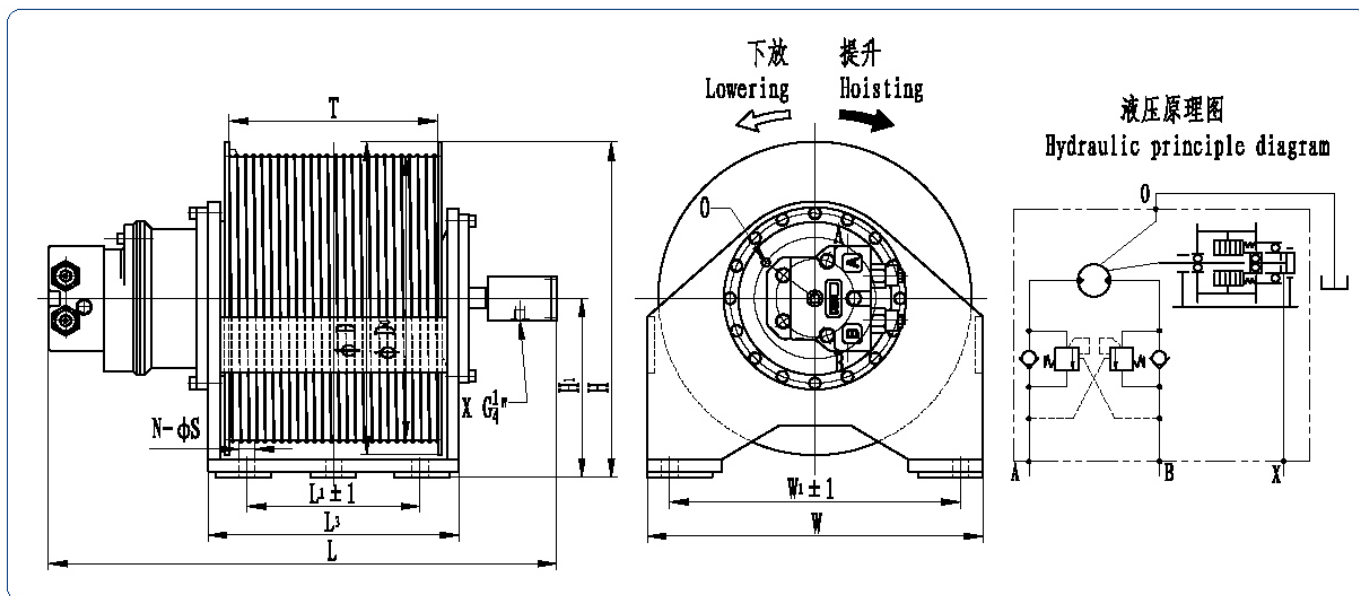
2. Model Options



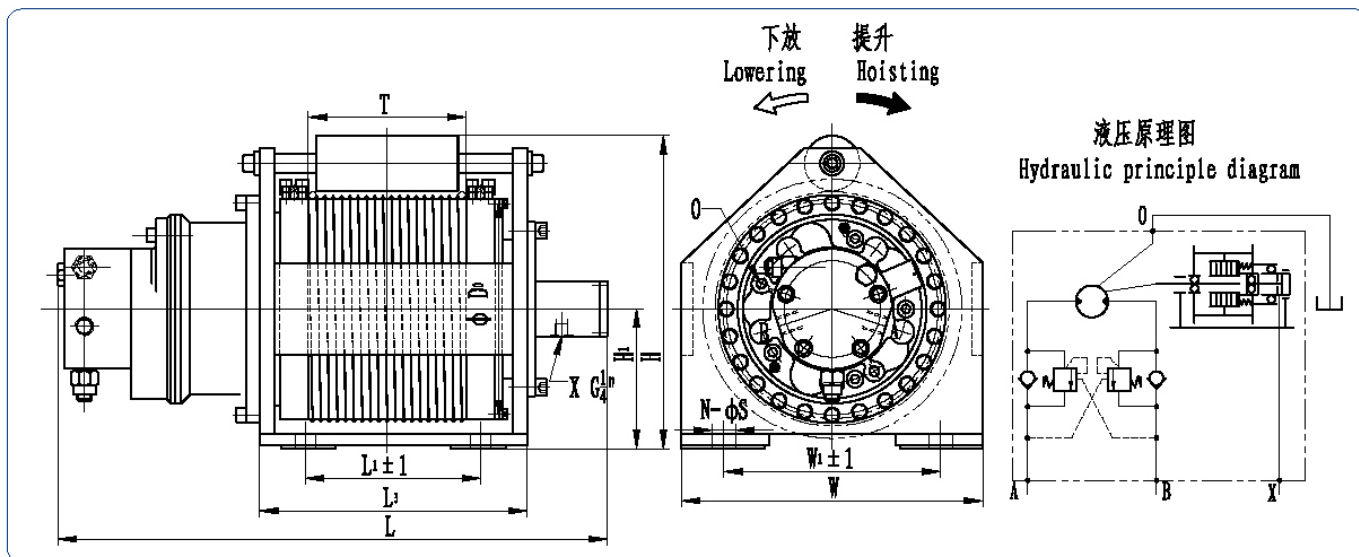
3. Options Example

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.

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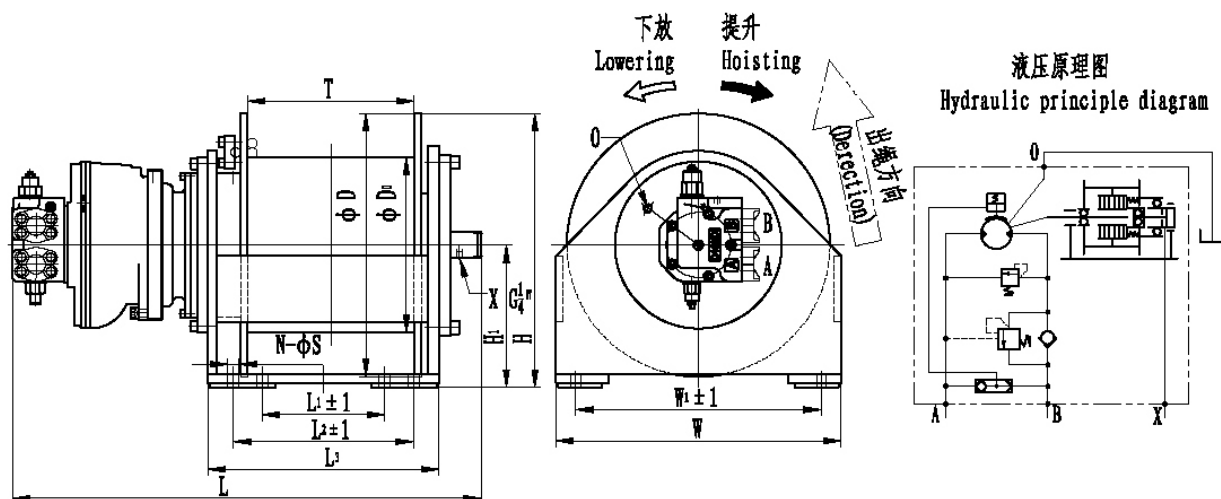


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D 0	D	T	L1	L2	L3	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"

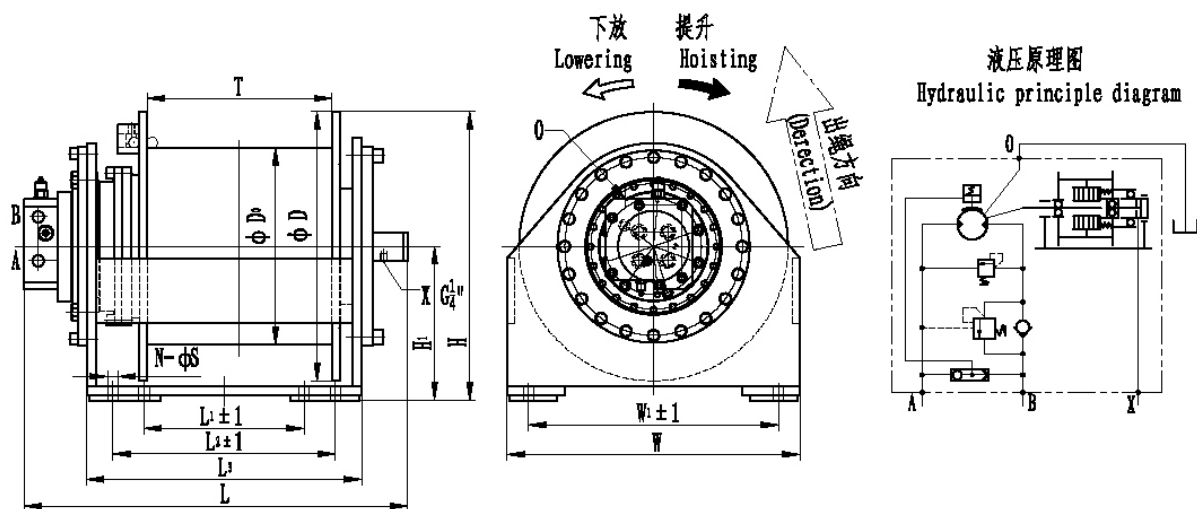


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	减速器 传动比 Gearbox ratio	离合器完全 开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D0	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A、B	O
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

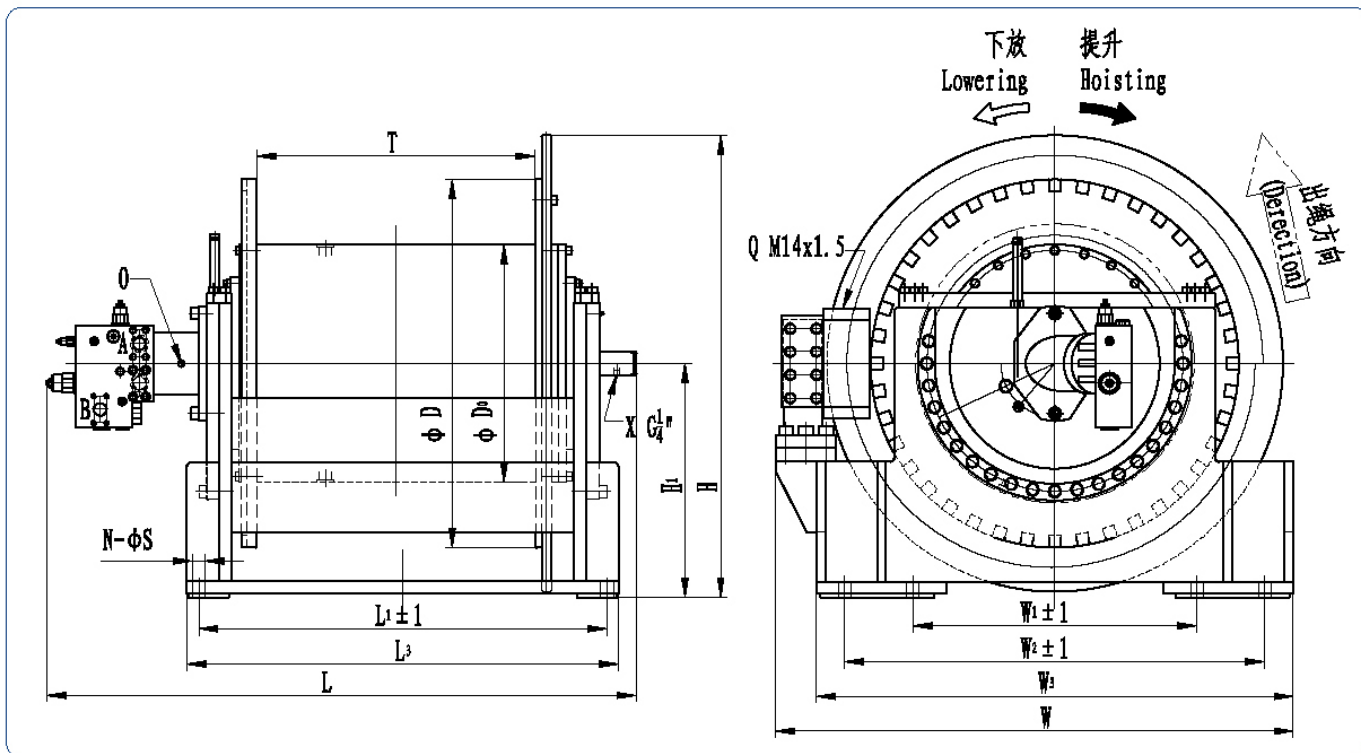


系列代号 Serial code	第二层拉力 The 2nd Layer Pull (kN)	第二层绳速 The 2nd Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器 传动比 Gearbox ratio	离合器完全 开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D 0	D	T	L1	L2	L3	L	W 1	W 2	W 3	W	H 1	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"

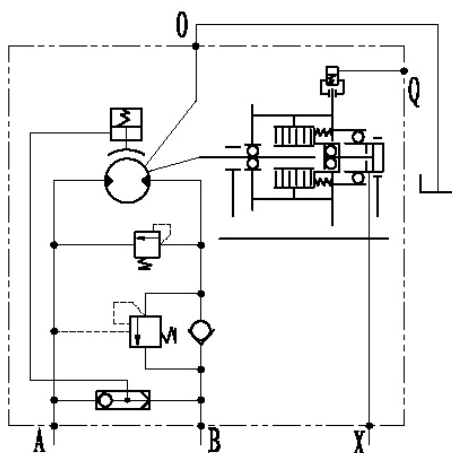


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall 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

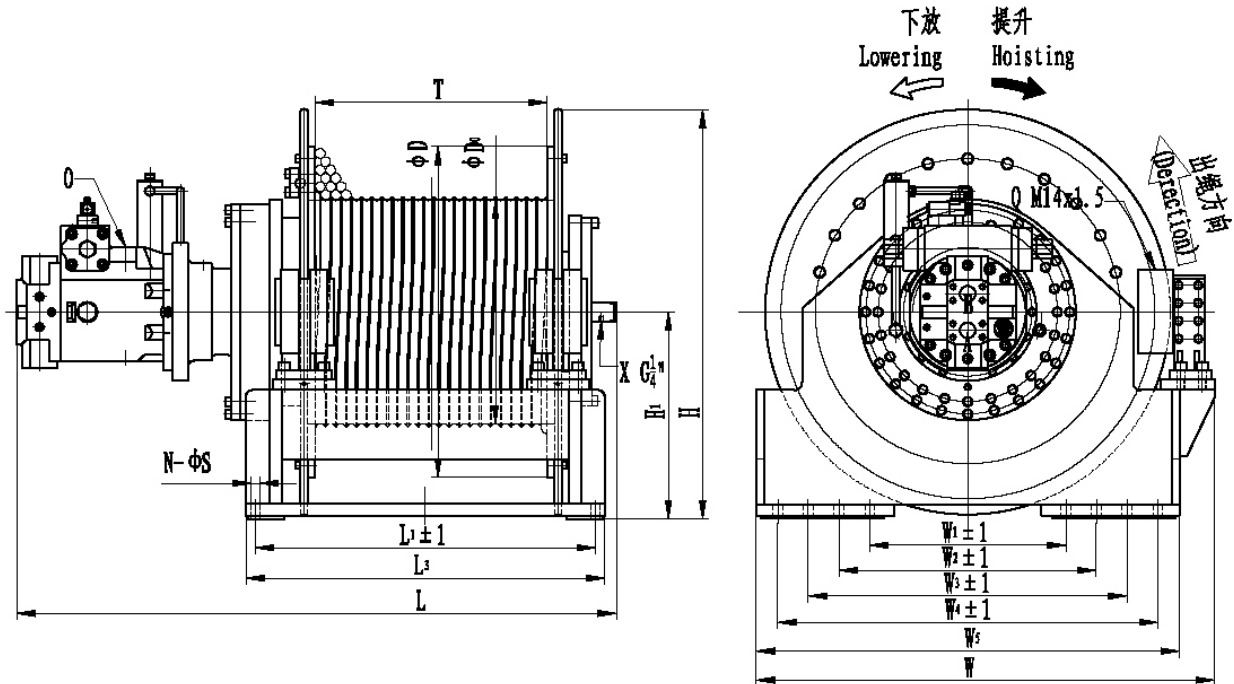


液压原理图
Hydraulic principle diagram

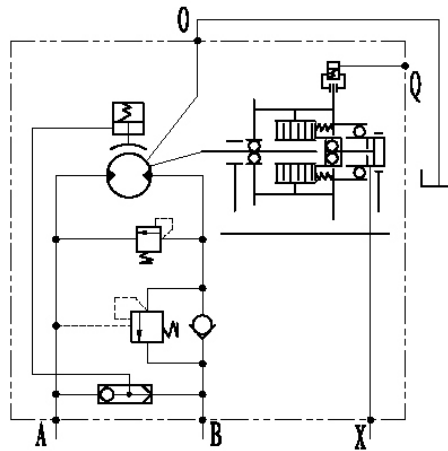


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器 传动比 Gearbox ratio	离合器完全 开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall dimensions and oil ports specifications																
											D 0	D	T	L1	L2	L3	L	W1	W2	W3	W	H1	H	N	S	A、B	O
IYJ46-L	100	90	9154.3	28	478	26	4	280	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	280	61.37	7.5	595	920	691	1020	-	1080	1475	710	1050	1192	1295	585	1155	8	φ32	φ32	M22x1.5
IYJ4. S7-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

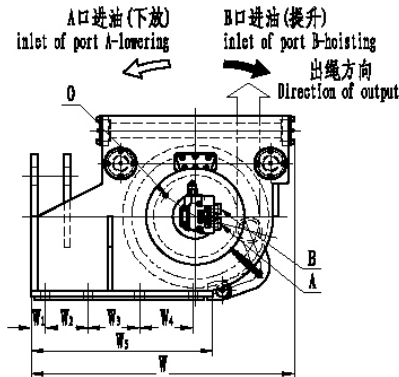
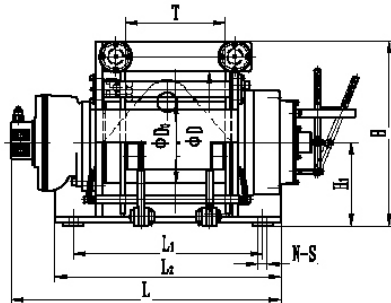


液压原理图
Hydraulic principle diagram

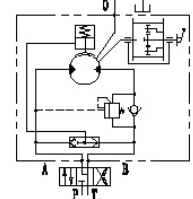


系列代号 Serial code	第一层拉力 The 1st Layer Pull (kN)	第一层绳速 The 1st Layer Rope Speed (m/min)	总排量 (ml/r) Displacement	系统压力 System pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速器传动比 Gearbox ratio	离合器完全开启压力 Clutch opening pressure (MPa)	外形尺寸及油口规格 Overall 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
IYJ577-L	160	68	17400	30	550	32	5	300	87	5	730	1080	756	1110	—	1170	1950	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	1950	640	840	1040	1240	1380	1495	675	1335	16	Φ31	Φ30	M40x2
	250	64	26600	30	785	32	5	300	53.2	5	730	1080	756	1110	—	1170	1950	640	840	1040	1240	1380	1495	675	1335	16	Φ32	Φ30	M40x2
	300	40	30805	30	574	32	5	300	87	5	730	1080	756	1110	—	1170	1950	640	840	1040	1240	1380	1495	675	1335	16	Φ32	Φ38	M42x2

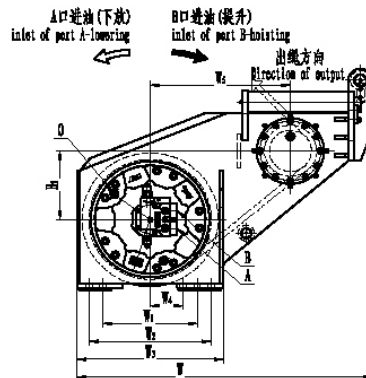
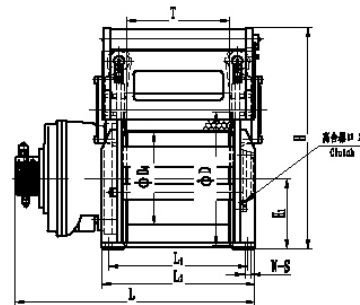
● IYJ-L



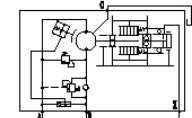
绞车液压原理图
Hydraulic schematic diagram of winch



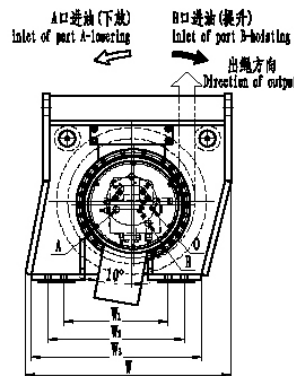
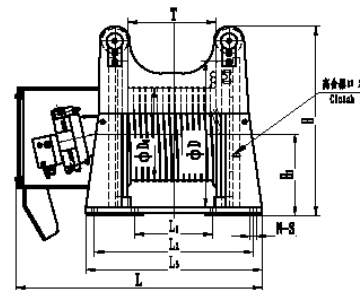
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	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							D ₀	D	T	L ₁	L ₂	L ₃	L	W ₁	W ₂	W ₃	W ₄	W ₅	W	H ₁	H ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ45-ZPL	21.0	-	7.9	-	2221.8	-	15	274	28	3	50	32.2	325	565	386	732	875	-	1330	54	165	199	268	700	1017	330	-	730	8	φ35	φ35	G1/2"	-	



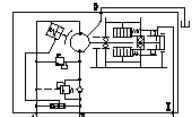
绞车液压原理图
Hydraulic schematic diagram of winch



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	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							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 ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ15-ZPL	15.0	-	2.0	-	1986.0	-	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"	

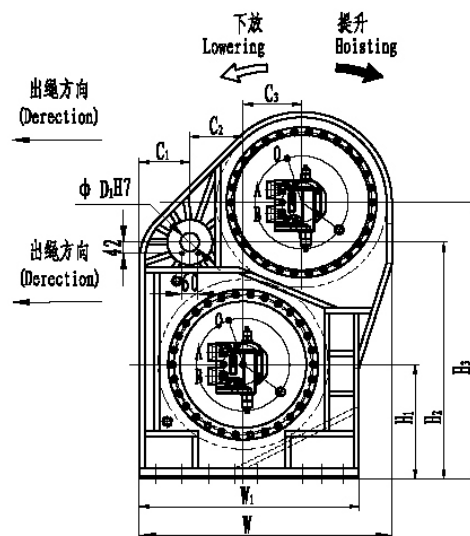
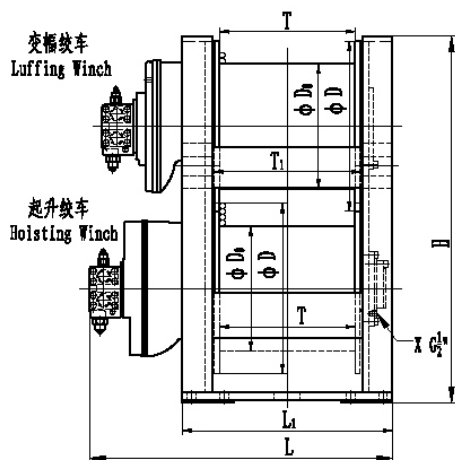


绞车液压原理图
Hydraulic schematic diagram of winch

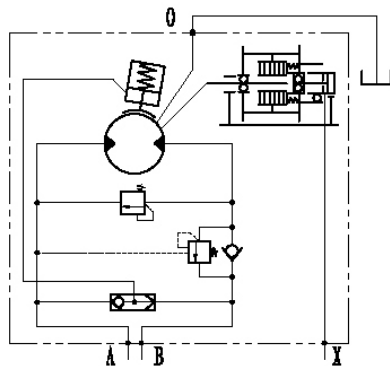


系列代号 Serial code	第一层拉力 The 1st Layer Pull		第一层绳速 The 1st Layer Rope Speed		总排量 Displacement		工作压力 Working pressure (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳 直径 Diameter of rope (mm)	层数 Layer	容量 Capacity of rope (m)	减速机 传动比 Gearbox ratio	外形尺寸及油口规格 Overall dimensions and oil ports specifications																					
	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load	重载 Heavy load	轻载 Slight load							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 ₂	H	N	S	A	B	O	X
	(kN)	(kN)	(m/min)	(m/min)	(ml/r)	(ml/r)																												
IYJ35.55.5-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	W2x1.5	W1x1.5	

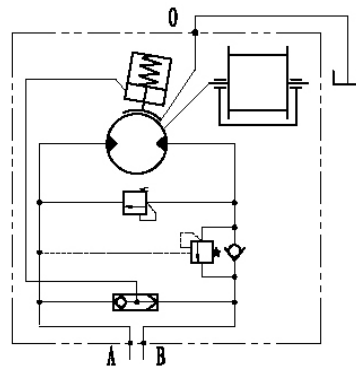
● IYJ-L



起升绞车液压原理图 (Hoisting Winch Hydraulic principle diagram)



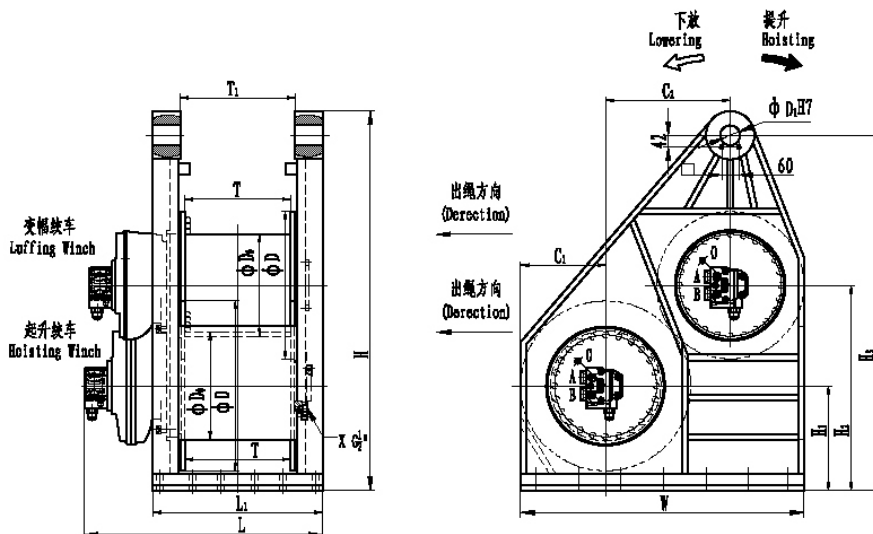
变幅绞车液压原理图 (Luffing Winch Hydraulic principle diagram)

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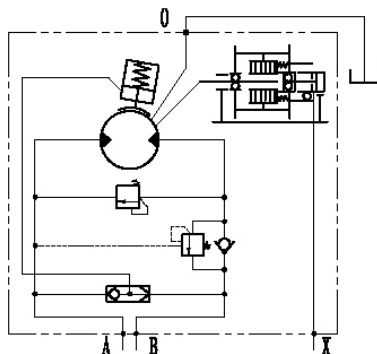
注: 本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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

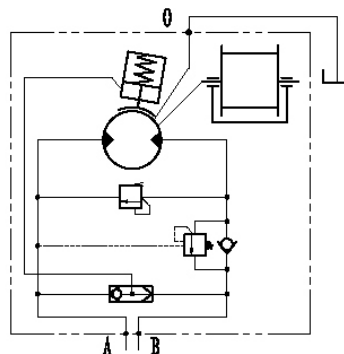
● IYJ-L



起升绞车液压原理图 (Hoisting Winch Hydraulic principle diagram)



变幅绞车液压原理图 (Luffing Winch Hydraulic principle diagram)

[illegible]

注: 本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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