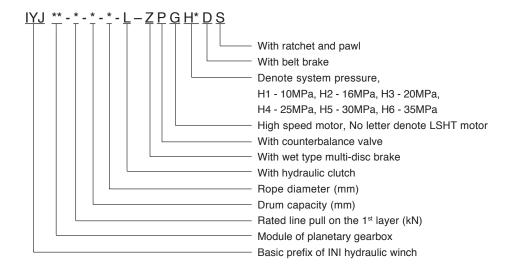
IYJ-L Free Fall Hydraulic Winch Series

1. Brief Introduction

The IYJ—-L free fall hydraulic winch series consist of planetary gearbox, hydraulic motor, wet type brake, various valve blocks of single counterbalance valve and shuttle valve, drum, frame and hydraulic control clutch. So the series not only simplified hydraulic 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 hydraulic winch series 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, crawler 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 layer is 75kN with drum capacity of 88m and a rope diameter of 22mm. The winch is fitted with a piston motor, parking brake, single counterbalance valve, and hydraulic clutch. The winch system pressure is 25MPa.

IYJ-L

注: 1、总排量为卷筒每转一转的供油量;

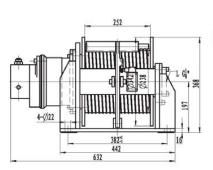
Note: 1. Total displacement represents capacity of oil supply per revolution.

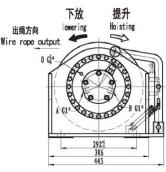
- 2、容绳量为绞车的理论容绳量,实际允许的有效容绳量应考虑保留钢丝绳 3 圈以 防绳头脱出;
- Maintain mandatory minimum of three wraps of rope to be left on the drum at all times for safety.
- 3、当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
- 3. The pressure reducing valve should be setted in brake control circuit if system pressure is above 16MPa.

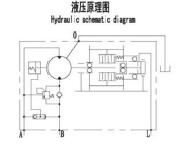
If back pressure is higher than 1MPa, a 2/3 sequence valve needs to be used to assure that brake circulation oil can be lead back to reservoir without back pressure.

- 4、离合器控制压力最高不得超过 8MPa;
- 4. The control pressure of hydraulic clutch is not higher than 8MPa.
- 5、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)
- 5. Fitted with rope roller and alarm device indicating bottom layer condition. (the item is optional)
- 6、液压马达泄漏必须直接回油箱,不允许与主回油路连接;马达3位4通控制阀中位机能必须为"Y"或"H"型。
 - 6. The drain port of the hydraulic motor must be separately connected to the reservoir.

The 3/4 directional control valve of motor should be of a "Y" or "H" type in neutral position.





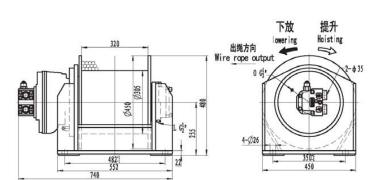


型 号 Model		9一层 1st layer 绳速(m/min)	总排量 Total displacement	工作压差 Working pressure diff.	供油 流量 Oil flow	钢丝绳 直径 Rope	Layor	容绳量 Wire rope capacity		行星减速器 型号	制动器开启压力 The Brake Opening Presure		自由下放时空钩 所需的最小重量 Min. Weight for free fall	重量 Weight
MOUGI	Pull	Rope speed	(ml/rev)	(MPa)	supply (L/min)	diameter (mm)	(层)	(m)	Hydraulic motor	Gearbox model	(MPa)	(MPa)	(Kg)	(Kg)
YJ2. 5-5-75-8-L-ZPH2	5	0-30	430	13	0-19	8	2	24 48 75	NMO5-90D51	C2. 5A i=5	3	3	25	120
YJ2. 5-5-75-8-L-ZPH3	5	0-30	295	18	0-13	8	2	24 48 75	INM05-60D51	C2. 5A i=5	3	3	25	120
YJ2. 5-10-60-10-L-ZPH2	10	0-30	755	14	0-32	10	2	19 39 60	NM05-150D51	C2. 5A i=5	3	3	25	120
IYJ2. 5-10-60-10-L-ZPH3	10	0-30	575	18	0-25	10	2 3	19 39 60	INN05-110D51	C2. 5A i=5	3	3	25	120
YJ2. 5-15-50-12-L-ZPH2	15	0-30	1050. 5	14	0-44	12	2	16 33 50	NM05-200D51	C2. 5D i=5. 5	3	4. 5	25	120
IYJ2. 5-15-50-12-L-ZPH3	15	0-30	830	18	0-36	12	2 3	16 33 50	I NMO5-170D51	C2. 5D i=5. 5	3	4. 5	25	120
YJ2. 5-20-50-12-L-ZPH2	20	0-30	1337	14. 6	0-56	12	2	16 33 50	NM05-200D51	C2. 5 i=7	3	6	25	120
IYJ2. 5-20-50-12-L-ZPH3	20	0-30	1050. 5	18	0-44	12	2	16 33 50	INM05-200D51	C2. 5D i=5. 5	3	6	25	120

- 注: 1. 总排量为卷筒每转一转的供油量;工作压差为绞车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0. 9的情况下计算所得;
 - 3. 容绳量为绞车的理论容绳量,实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序 阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 离合器控制压力最高不得超过8MPa;
 - 6. 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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.

 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90

 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)





型 号 Model		9一层 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油 流量 Oil flow supply (L/min)	钢丝绳 直径 Rope diameter (mm)	层数 Layer (层)	容绳量 Wire rope capacity (m)	液压马达 型号 Hydraulic motor	行星减速器 型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	高合器开启压力 The Clutch Opening Presure (MPa)	自由下放时空物 所需的最小重量 Min. Weight for free fall (Kg)	重量 Weigh (Kg)
YJ3-20-69-14-L-ZPH2	20	0-40	1701	14	0-75	14	2	22 44 69	INM1-250 D120101	C3 i=7	3	5	35	300
YJ3-20-69-14-L-ZPH3	20	0-40	1407	17	0-62	14	2	22 44 69	INM1-200 D120101	C3 i=7	3	5	35	300
YJ3-25-69-14-L-ZPH2	25	0-40	2030	14. 5	0-90	14	2	22 44 69	INM1-300 D120101	C3 i=7	3	5	35	300
YJ3-25-69-14-L-ZPH3	25	0-40	1701	17. 6	0-76	14	2	22 44	NM1-250 D120101	C3 i=7	3	5	35	300
YJ3-30-66-15-L-ZPH2	30	0-40	2465	14. 4	0-109	15	2	69 21 42 66	NM2-500 D120101	C3A i=5	3	5	35	300
YJ3-30-66-15-L-ZPH3	30	0-40	1908. 5	18. 8	0-85	15	2 3	21 42 66	INM2-350 D120101	C3D i=5, 5	3	5	35	300
YJ3-35-66-15-L-ZPH2	35	0-40	2825	14.7	0-125	15	2	21 42 66	NM2-600 D240101	C3A i=5	3	7	35	300
YJ3-35-66-15-L-ZPH3	35	0-40	2337. 5	18	0-104	15	2	21 42 66	NM2-420 D240101	C3D i=5, 5	3	7	35	300
YJ3-40-64-16-L-ZPH2	40	0-40	3426. 5	14	0-151	16	1 2 3	20 40 64	NM2-630 D240101	C3D i=5. 5	3	7	35	300
YJ3-40-64-16-L-ZPH3	40	0-40	2711.5	17. 5	0-120	16	2	20 40 64	NM2-500 D240101	C3D i=5. 5	3	7	35	300

- 注。1. 总排量为卷简每转一转的供油量;工作压差为绞车工作时A、B两进出油口的压力差;
 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得。
 3. 客熵量为绞车的理论客绳量,实际允许的有效客绳重应考虑保留钢丝绳3米以防绳头脱出;
 4. 当系统压力超过16种2时,进入制动器处应设置减压阀;对系统回油背压大于1种2时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 5. 离合器控制压力最高不得超过8种2;

 - 6. 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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.

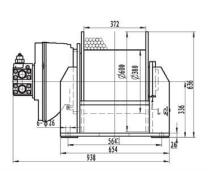
 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

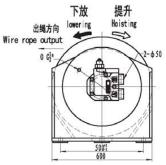
 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.

 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.

 5. The control pressure of hydraulic clutch is not higher than 8MPa.

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







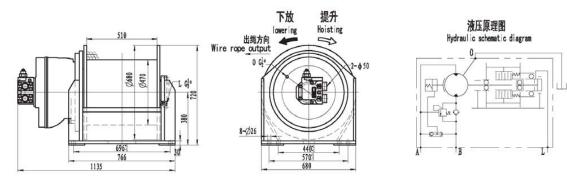
型 号 Model		9一层 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)		钢丝绳 直径 Rope diameter	层数 Layer (层)	容绳量 Wirerope capacity (m)	液压马达 型号 Hydraulic motor	行星减速器 型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	南合語开启压力 The Clutch Opening Presure (MPa)	自由下放时空钩 所需的最小重量 Min. Weight for free fall (Kg)	重量 Weight (Kg)
YJ4-45-108-18-L-ZPH2		0-50	4935	13. 6	(L/min) 0-212	18	2 3 4	50 79 108	NM3-1000 D240101	C4A i=5	(MPa)	(MPa)	50	650
YJ4-45-108-18-L-ZPH3	45	0-50	3795	17. 3	0-169	18	3 4	50 79 108	NM3-700 D240101	C4D i=5.5	3	5	50	650
YJ4-50-97-20-L-ZPH2	50	0-50	5428. 5	13. 5	0-240	20	3 4	45 71 97	NM3-1000 D480101	C4D i=5.5	3	5	50	650
1YJ4-50-97-20-L-ZPH3	50	0-50	3960	18. 4	0-175	20	3 4	45 71 97	NM3-800 D240101	C4A i=5	3	5	50	650
YJ4-55-97-20-L-ZPH2	55	0-50	5621	14. 3	0-249	20	3	45 71 97	NM4-1000 D480101	C4D i=5.5	3	5	50	685
1YJ4-55-97-20-L-ZPH3	55	0-50	4520	17. 8	0-200	20	3 4	45 71 97	NM4-900 D480101	C4A i=5	3	5	50	685
YJ 4-60-93- 21.5-L-ZPH2	60	0-50	6138	14. 4	0-270	21.5	3	43 68 93	NM4-1100 D480101	C4D i=5. 5	3	7	50	685
YJ 4-60-93-2 1.5-L-ZPH3	60	0-50	4972	17.7	0-220	21.5	3	43 68 93	NM4-900 D480101	C4D i=5. 5	3	7	50	685
Y J4-65-93- 21.5-L-ZP 1 2	65	0-50	6858. 5	14	0-302	21.5	3 4	43 68 93	NM4-1250 D480101	C4D i=5.5	3	7	50	685
1YJ 4-65-93-2 1.5-L-ZPH3	65	0-50	5621	17. 2	0-246	21.5	3 4	43 68 93	NM4-1100 D480101	C4 i=7	3	7	50	685

- 注: 1. 总排量为卷筒每转一转的供油量;工作压差为绞车工作时A、B两进出油口的压力差; 2. 供油流量是泵的理论流量。即在考虑系统容积效率为0.9的情况下计算所得; 3. 容夠量为较车的理论容编量,实际尤许的有效容编量应考虑保留钢丝绳3米以防绳头脱出; 4. 当系统压力超过16MPa时,进入割动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱; 5. 离合器控制压力最高不得超过8MPa;

 - 6. 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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port

 - Total displacement represents the capacity of oil supply pre 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 volumet-ric efficiency 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 setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 The control pressure of hydraulic clutch is not higher than 8MPa.
 Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)





型 号 Model		9一层 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油 流量 Oil flow supply (L/min)	钢丝绳 直径 Rope diameter	层数 Layer (层)	容绳量 Wire rope capacity (m)	液压马达 型号 Hydraulic motor	行星减速器 型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	南合憲开启压力 The Clutch Opening Presure (MPa)	自由下放时空物 所需的最小重量 Min. Weight for free fall (Kg)	重量 Weigh (Kg)
YJ5-65-112-21. 5-L-ZPH2	65	0-40	9212	13	0-239	21.5	2	35 71 112	NM4-1300 D480101	C5 i=7	3	6	50	1200
IYJ5-65-112-21. 5-L-ZPHs	65	0-40	6328	18. 2	0-182	21. 5	1 2 3	35 71 112	NM4-900 D480101	C5 i=7	3	6	50	1200
YJ5-70-112-21.5-L-ZPH2	70	0-40	8729	14. 4	0-251	21. 5	2 3	35 71 112	NM4-1250 D480101	C5 i=7	3	6	50	1200
IYJ5-70-112-21. 5-L-ZPH3	70	0-40	7154	17. 6	0-206	21. 5	2	35 71 112	NM4-1000 D480101	C5 i=7	3	6	50	1200
YJ5-80-103-24-L-ZPH2	80	0-40	10035	14.7	0-286	24	2	32 65 103	NM5-2000 D480101	C5A i=5	3	6	50	1200
YJ5-80-103-24-L-ZPH3	80	0-40	8170	17.7	0-234	24	1 2 3	32 65 103	NM5-1600 D480101	C5A i=5	3	6	50	1200
YJ5-90-95-26-L-ZPH2	90	0-40	11698. 5	14	0-334	26	2	30 60 95	NM6-2100 D480101	C5D i=5.5	3	8	50	1200
YJ5-90-95-26-L-ZPH3	90	0-40	9295	18	0-259	26	2	30 60 95	INM6-1700 D480101	C5D i=5. 5	3	8	50	1200
YJ5-100-57-28-L-ZPH2	100	0-40	13821. 5	13. 2	0-393	28	1 2	28 57	NM6-2500 D480101	C5D i=5.5	3	8	50	1200
YJ5-100-57-28-L-ZPH3	100	0-40	10052	18. 1	0-286	28	1 2	28 57	NM6-2500 D480101	C5D i=5. 5	3	8	50	1200

- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;

 - 1. 必為是人在時間時代,我的於周星上上に企業力成本上に中心、於例此川南日的加入之。 2. 供油流量是系的理论注重,即在考虑系统容积效率为0.9的情况下计算所得。 3. 客機量为数车的理论容编量。实际允许的有效容编量应考虑保密钢丝绳3米以防绷头脱出。 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀,对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀。使制动工况时,制动器油缸直接通油箱; 5. 高合器控制压力最高不得超过8MPa;

 - 6. 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)
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 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

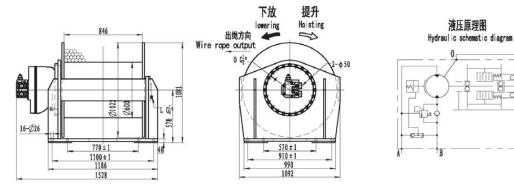
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 5. The control pressure of hydraulic clutch is not higher than 8MPa.

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



型 묵 Model		一层 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油 流量 Oil flow supply (L/min)	钢丝绳 直径 Rope diameter (mm)		容绳量 Wire rope capacity (m)	液压马达 型号 Hydraulic motor	行星减速器 型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	离合器开启压力 The Clutch Opening Presure (MPa)	自由下並射空物 所需的最小重量 Min. Weight for free fall (Kg)	重量 Weight (Kg)
YJ6-100-335-28-L-ZPH2	100	0-30	17591	13. 3	0-297	28	3 4 5	188 258 335	NM6-2500 D480101	C6 i=7	3	2	75	2200
YJ6-100-335-28-L-ZPH3	100	0-30	12712	18	0-215	28	3 4 5	188 258 335	NM5-1800 D480101	C6 i=7	3	2	75	2200
YJ6-110-335-28-L-ZPH2	110	0-30	17591	14. 4	0-297	28	3 4 5	188 258 335	NM6-2500 D480101	C6 i=7	3	2. 2	75	2200
YJ6-110-335-28-L-ZPH3	110	0-30	13821.5	18. 3	0-233	28	3 4 5	188 258 335	NM6-2500 D480101	C6D i=5. 5	3	2. 2	75	2200
IYJ6-120-315-30-L-ZPH3	120	0-30	16725. 5	17	0-281	30	3 4 5	176 242 315	NM6-3000 D480101	C6D i=5. 5	3	2. 4	75	2200
YJ6-130-298-32.5-L-ZPH3	130	0-30	16725. 5	18	0-280	32. 5	3 4 5	165 228 298	NM6-3000 D480101	C6D i=5. 5	3	2. 6	75	2200
YJ6-150-276-34-L-ZPH3	150	0-30	19904. 5	18	0-235	34	3 4 5	153 211 276	HGM31-3500 D480101	C6D i=5. 5	3	3. 0	75	2400
IYJ6-180-198-38-L-ZPH3	180	0-30	23430	18	0-393	38	3 4	90 143 198	HGM31-4000 D480101	C6D i=5. 5	3	3. 6	75	2400

- 注: 1. 总排量为卷筒每转一转的供油量;工作压差为绞车工作时A、B两进出油口的压力差; 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0. 9的情况下计算所得; 3. 客绳量为绞车的理论客绳量,实际允许的有效客绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸
 - 5. 离合器控制压力最高不得超过8MPa;
 - 6. 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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop

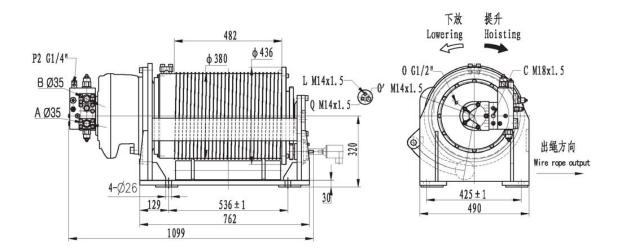
 - botween Port A and Port B.

 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

 3. 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.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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. The control pressure of hydraulic clutch is not higher than 8MPa.

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

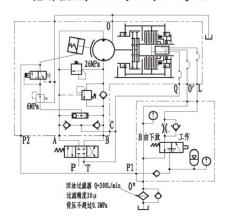
IYJ4-48-20-16-L-ZPH3



主要技术性能参数 (Main Specifition)

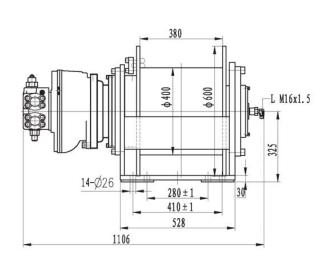
第一层最大拉力 Max.full on the 1st la	yer (kN)	47.5
第一层最大绳速 Max. speed on the 1st 1	ayer (m/min)	44
卷筒总排量 Total displacement (mL/r)		2849.7
系统额定压力 System pressure (MPa)		26
液压马达工作压差 Diff. pressure (MPa)		24.5
适用钢丝绳直径 Rope diameter (mm)		16
钢丝绳层数 Number of rope layers		1
容绳量 Drum capacity(m)		20
泵的理论流量 Pump flow(L/min)		106
马达型号 Motor type	INM3-700+F240111	P
减速机型号 Gearbox type	C4F (i=4. 13)	
离合器完全开启压力 Clutch openning pr	essure (MPa)	5.5
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	80

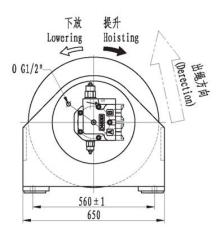
液压原理图 (Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0. 9的情况下计算所得;
 - 3. 容絕量为較车的理论容絕量,实际允许的有效容絕量应考虑保留铜丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三速顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 高合器控制压力最高不得超过8MPa;
 - 6. 本系列紋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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

IYJ4-50-40-22-L-ZPH3

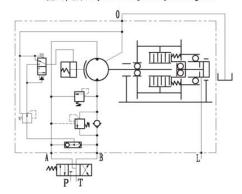




主要技术性能参数 (Main Specifition)

第二层最大拉力 Max. full on the 2nd 1a	yer (kN)	50
第二层最大绳速 Max. speed on the 2nd 1	ayer (m/min)	50
卷简总排量 Total displacement (mL/r)		5544
系统额定压力 System pressure (MPa)		17
液压马达工作压差 Diff. pressure (MPa)		15.5
适用钢丝绳直径 Rope diameter (mm)		22
钢丝绳层数 Number of rope layers		2
容绳量 Drum capacity(m)		40
泵的理论流量 Pump flow(L/min)		202
马达型号 Motor type	INM3-800D480111P	
减速机型号 Gearbox type	C4I (i=7)	
离合器完全开启压力 Clutch openning pr	ressure (MPa)	7.5
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	100

液压原理图(Hydraulic principle diagram)

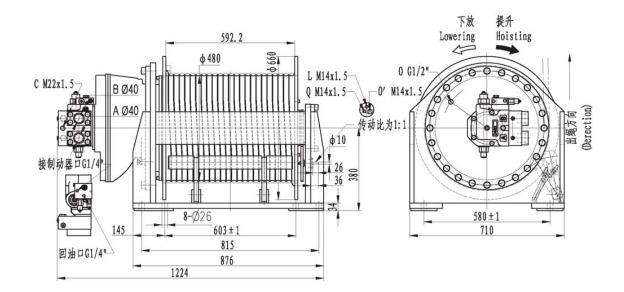


- 注: 1. 总排量为卷简每转一转的供油量; 工作压差为效车工作时A、B两进出油口的压力差;
- 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
- 3. 容蝇量为效车的理论容蝇量,实际允许的有效容蝇量应考虑保留钢丝绳3米以防绳头脱出;
- 4. 当系统圧力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三速顺序阀,使制动工况时,制动器油缸直接通油箱;
- 5. 离合器控制压力最高不得超过8MPa;
- 6. 本系列蛟车可带圧绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项,用户订货自选)
- Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.

 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

 3. 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.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

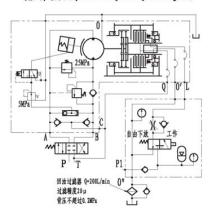
IYJ5-125-70-24-L-ZPH4



主要技术性能参数 (Main Specifition)

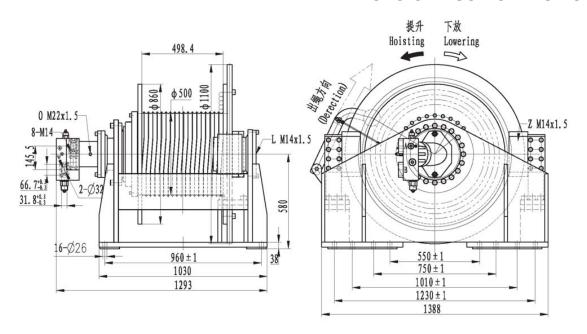
第二层最大拉力 Max.full on the 2nd lay	ver (kN)	125	
第二层最大绳速 Max. speed on the 2nd layer(m/min)			
卷简总排量 Total displacement (mL/r)			
系统额定压力 System pressure (MPa)		25	
液压马达工作压差 Diff. pressure (MPa)		23	
适用钢丝绳直径 Rope diameter(mm)		24	
钢丝绳层数 Number of rope layers		2	
容绳量 Drum capacity(m)		70	
泵的理论流量 Pump flow(L/min)		375	
马达型号 Motor type	INM5-2000D480111	P	
减速机型号 Gearbox type	C5DI (i=5, 5)		
离合器完全开启压力 Clutch openning pre	essure (MPa)	7.5	
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	120	

液压原理图(Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容绝量为较车的理论容绝量,实际允许的有效容绝量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工风时,制动器油缸直接通油箱;
 - 5. 离合器控制压力最高不得超过8MPa;
 - 6. 本系列较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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing walve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

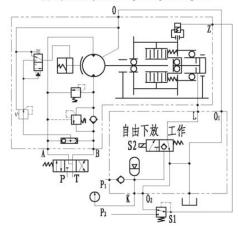
IYJ46-94-180-26-ZPGH5Q



主要技术性能参数 (Main Specifition)

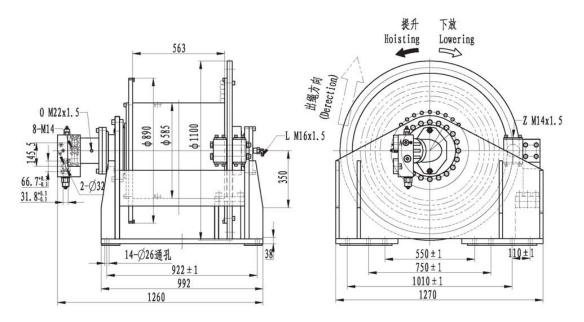
第五层最大拉力 Max.full on the 5th lay	yer (KN)	94
第一层最大绳速 Max. speed on the 1st 1a	ayer (m/min)	66
卷筒总排量 Total displacement (mL/r)		13525.12
系统额定压力 System pressure (MPa)		30
马达最大工作压差 Max diff. pressure (MPa	a)	28.7
适用钢丝绳直径 Rope diameter(mm)		26
钢丝绳层数 Number of rope layers		5
容绳量 Drum capacity(m)		180
泵的理论流量 Pump flow(L/min)		428
马达型号 Motor type	A2FE160/6.1WVZL1	0+F480111P
减速机型号 Gearbox type	C46I (i=63. 5072)	
离合器完全开启压力 Clutch openning pro	essure (MPa)	7.5
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	100

液压原理图(Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为效车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容绳量为核车的理论容绳量,实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 离合器控制压力最高不得超过8MPa;
 - 6. 本系列較车可帶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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

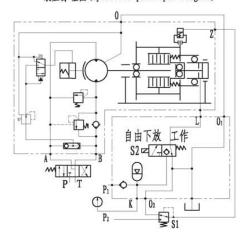
IYJ46-110-180-26-L-ZPGH5Q



主要技术性能参数 (Main Specifition)

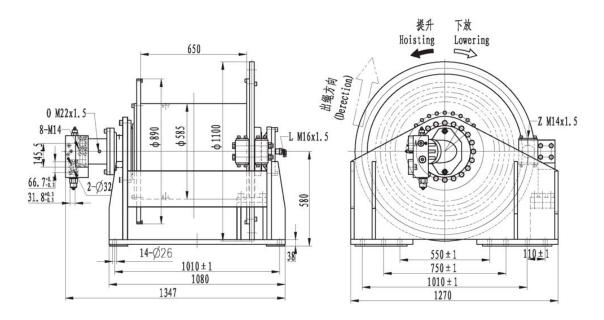
第一层最大拉力 Max.full on the 1st la	yer (KN)	110
第一层最大绳速 Max. speed on the 1st 1	ayer (m/min)	66
巻筒总排量 Total displacement (mL/r)		10161.152
系统额定压力 System pressure (MPa)		28
液压马达工作压差 Diff. pressure (MPa)		26
适用钢丝绳直径 Rope diameter (mm)		26
钢丝绳层数 Number of rope layers		4
容绳量 Drum capacity(m)		180
泵的理论流量 Pump flow(L/min)		376
马达型号 Motor type	A2FE160/6. 1WVZL1	0+F480111P
减速机型号 Gearbox type	C46I (i=63. 5072)	
离合器完全开启压力 Clutch openning pr	essure (MPa)	7.5
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	100

液压原理图(Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为较车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容绳置为较车的理论容绳量,实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 萬合器控制压力最高不得超过8MPa;
 - 6.本系列较丰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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

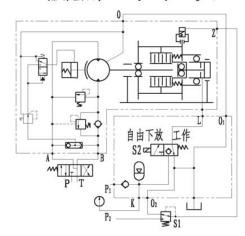
IYJ46-125-210-26-ZPGH5Q



主要技术性能参数 (Main Specifition)

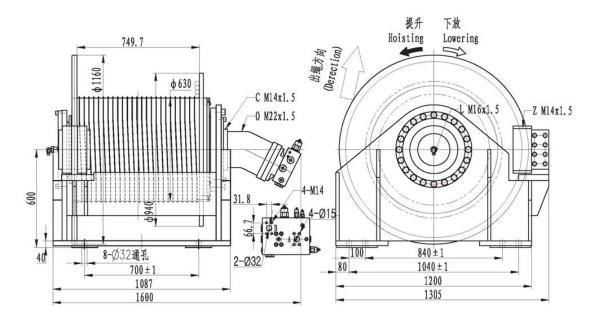
第一层最大拉力 Max.full on the 1st lay	er (KN)	125
第一层最大绳速 Max. speed on the 1st la	yer (m/min)	70
卷筒总排量 Total displacement (mL/r)		11431. 296
系统额定压力 System pressure (MPa)		28
液压马达工作压差 Diff. pressure (MPa)		26
适用钢丝绳直径 Rope diameter (mm)		26
钢丝绳层数 Number of rope layers		4
容绳量 Drum capacity(m)		210
泵的理论流量 Pump flow(L/min)		448
马达型号 Motor type	A2FE180/6. 1WVZL1	0+F480111P
减速机型号 Gearbox type	C46I (i=63. 5072)	
离合器完全开启压力 Clutch openning pre	ssure (MPa)	7.5
自由下放空钩最小重量 Single rope pull	on free rotary (Kg)	100

液压原理图 (Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为较车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容絕量为效车的理论容絕量,实际允许的有效容絕量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于IMPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 高合器控制压力最高不得超过8MPa;
 - 6. 本系列较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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than IMPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum (the item as option)

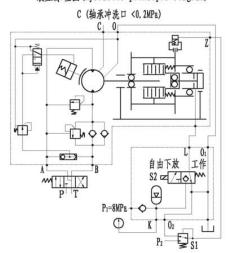
IYJ4.57-150-232-28-ZPGH5Q



主要技术性能参数 (Main Specifition)

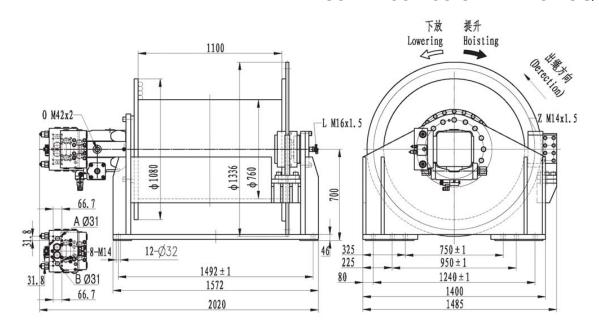
第一层最大拉力 Max. full on the 1st 1	ayer (KN)	150	
第一层最大绳速 Max. speed on the 1st layer(m/min)			
卷筒总排量 Total displacement (mL/r)		12937.5	
系统额定压力 System pressure (MPa)		30	
液压马达工作压差 Diff. pressure (MPa)		28.9	
适用钢丝绳直径 Rope diameter (mm)		28	
钢丝绳层数 Number of rope layers		4	
容绳量 Drum capacity(m)		232	
泵的理论流量 Pump flow(L/min)		540	
马达型号 Motor type	A2F250W5Z1+F7201	11P	
减速机型号 Gearbox type	C4. 57I (i=51. 75)		
离合器完全开启压力 Clutch openning p	ressure (MPa)	7.5	
自由下放空钩最小重量 Single rope pul	on free rotary (Kg)	100	

液压原理图(Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为较车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的型论流量,即在考虑系统容积效率为0. 9的情况下计算所得;
 - 3. 容绳量为蛟车的湿论容绳量,实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于IMPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接逐油箱;
 - 5. 高合器控制压力最高不得超过8MPa;
 - 6. 本系列较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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Plow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

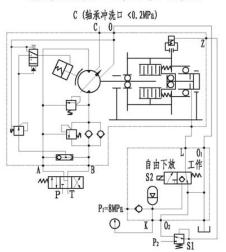
IYJ577-200-260-32-L-ZPGH5Q



主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(KN	200	142	
第一层最大绳速 Max.speed on the 1st layer(m	/min) 57	92. 5	
卷筒总排量 Total displacement(mL/r)	21881	15491.748	
系统额定压力 System pressure (MPa)		30	
液压马达工作压差 Diff. pressure (MPa)		28. 5	
适用钢丝绳直径 Rope diameter(mm)		32	
钢丝绳层数 Number of rope layers		3	
容绳量 Drum capacity(m)		260	
泵的理论流量 Pump flow(L/min)		580	
马达型号 Motor type	A4VSM250Z-142+F	250Z-142+F720111P	
减速机型号 Gearbox type	577I (i=87. 524)		
离合器完全开启压力 Clutch openning pressure (MPa)		7.5	
自由下放空钩最小重量 Single rope pull on free rotary(Kg)		250	

液压原理图(Hydraulic principle diagram)

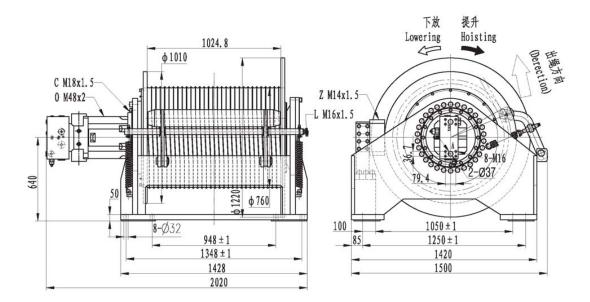


- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为较车工作时A、B两进出油口的压力差;
 - 2. 供油液量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容绳量为按车的理论容绳量,实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统圧力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 离合器控制压力最高不得超过8MPa;
 - 6. 本系列效车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项,用户订货自选)
- Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.

 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

 - 3. Capacity of rope is theoretical capacity of rope. The practical availab-le capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
 - 4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPs. When ruturn oil back pressure is higher than 1MPs, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

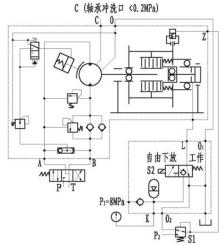
IYJ577-225-145-32-L-ZPGH5Q



主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(KN)		225
第一层最大绳速 Max. speed on the 1st layer(m/min)		57
巻筒总排量 Total displacement (mL/r)		26425
系统额定压力 System pressure (MPa)		28
液压马达工作压差 Diff. pressure (MPa)		26. 5
适用钢丝绳直径 Rope diameter(mm)		32
钢丝绳层数 Number of rope layers		2
容绳量 Drum capacity(m)		145
泵的理论流量 Pump flow(L/min)		595
马达型号 Motor type	A4FM500+F720111P	
東机型号 Gearbox type C577I(i		i=52. 85)
离合器完全开启压力 Clutch openning pressure(MPa)		7.5
自由下放空钩最小重量 Single rope pull on free rotary(Kg)		400

液压原理图(Hydraulic principle diagram)



- 注: 1. 总排量为卷筒每转一转的供油量; 工作压差为续车工作时A、B两进出油口的压力差;
 - 2. 供油流量是泵的理论流量,即在考虑系统容积效率为0.9的情况下计算所得;
 - 3. 容絕量为較车的理论容絕量,实际允许的有效容絕量应考虑保留钢丝绳3米以防绳头脱出;
 - 4. 当系统压力超过16MPa时,进入制动器处应设置减压阀;对系统回油背压大于1MPa时,制动器控制回路应设置两位三通顺序阀,使制动工况时,制动器油缸直接通油箱;
 - 5. 高合器控制压力最高不得超过8MPa;
 - 6. 本系列较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: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
 - 2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.

 3. 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.
 - 3. Capacity of rope is incoretical capacity of rope. The practical available capacity of rope should souther than 1MPa, setting 2/3.

 4. The reducing valve should be setted in brake control circuit if system pressure is shown 16MPa. When ruturn 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.
 - 5. The control pressure of hydraulic clutch is not higher than 8MPa.
 - 6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum (the item as option)