INI® 意宁液压
INI HYDRAULIC

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2014 Catalogue

②

[企业简介] Brief Introduction


宁波北仑总部
Ningbo Head Office


宁波春晓分公司
Ningbo Branch Company


江苏力劲子公司
Jiangsu Lijin Company

意宁液压股份有限公司总部位于宁波市北仑国家级开发区，公司总面积占地360余亩，已有建筑面积150000㎡，注册资金28100万元人民币，现有员工550人，技术人员占20%以上，由享受国务院津贴的国家级液压专家教授级高级工程师任总经理，博士、硕士、高级工程师、工程师、助理工程师组成的省级静液压驱动工程技术中心具有很强的创新研发设计能力。公司有2名德国ZF公司退休专家作为公司的荣誉员工，常来公司指导和帮助工作。公司已拥有16项发明专利，30项实用新型和外观专利，还有多项发明专利正在审查中。公司专业生产液压泵、液压马达、静液压驱动装置、液压绞车、行星减速机、高精度同步分流器、液压系统成套装置等产品，企业利用自主知识产权生产的产品，已在国内海洋工程、农机、渔机、工程机械、石油、煤矿、地质勘探、船舶、冶金、轻工、园林、环保等行业中广泛应用，并已出口到东南亚、中东、德国、美国、英国、奥地利、荷兰、澳大利亚、土耳其、印度、巴西、俄罗斯、韩国等地区和国家。

公司拥有最新的先进加工设备350余台套，其中进口设备占50%以上，数控设备占80%以上，拥有三坐标测量仪、齿轮测量中心、万能齿轮测量仪、光谱分析仪、全数字超声波探伤仪、数字万能工具显微镜、颗粒计数器等检测仪器63台套，已建立了液压泵、液压马达、静液压驱动装置型式试验室、净化装配室和16个各种产品的出厂试验台。公司已通过ISO9001：2008和CCSR9001，ISO14001环境体系认证，清洁生产认证、质量体系认证、CCS船级社型式认证、CE认证和欧盟船用设备指令EC型式认证。公司已被评定为国家重点扶持的高新技术企业，浙江省和宁波市专利示范企业、宁波市技术创新示范企业，产品已被评为宁波市和浙江省名牌产品。公司多次承担国家火炬计划项目、国家重点新产品项目和国家重大科技成果转化项目。产品多次获得行业、省和宁波市科技进步一、二、三等奖。

The head office of INI HYDRAULIC CO.,LTD is located in Beilun district, Ningbo, a national level industrial area. The company covers a total area of 240,000 sqm, with building area of 150,000 sqm. The register capital is CNY 281,000,000. We have 550 employees, and professional technicians account for more than 20%. We have strong research and develop capability. The provincial level R&D team consists of our general manager (who is a national level hydraulic expert & professional senior engineer that takes special subsidy awarded by the state council), doctors, masters, senior engineers, engineers, and assistant engineers. We invited two retired experts from ZF Company in Germany to help us. We got 16 invention patents and 30 practical innovation and figure patents. Several patents are under reviewing.

We specialize in manufacturing hydraulic pumps, hydraulic motors, hydrostatic drives, hydraulic winches, planetary gearboxes, high precision synchronizing flow dividers and whole set of hydraulic systems.

These patented products have been widely used in offshore application, agriculture, fishing, construction machinery, petroleum, coal mining, geological prospection, marine, metallurgical, light industry, and environmental protection and other industries. Our products have been exported to USA, UK, Austria, Netherlands, Australia, Russia, Germany, Turkey, Brazil, Southeast Asia, Middle East, India, Russia, Korea and other countries in the world.

We have more than 350 sets of advanced manufacturing equipment. 50% were imported, and CNC machines account for more than 80%. We have 63 sets of inspection machines, including three 3D measuring machines, gear measuring machines, universal gear measuring machines, optical spectrum analyzers, digital ultrasonic inspection machines, universal toolmaker's microscope, and particle counters. We set up type approval test labs for hydraulic pumps, hydraulic motors and hydrostatic drives, dust free assembly workshop and 16 test stands to do factory tests for various types of products.

We got ISO9001:2008, CCSR9001, and ISO14001certification, clean production certification, CCS certification, CE certification, and EC type MED certification. Our company was honored as national level high-tech enterprise, supported by the government, patent pilot enterprise in Zhejiang province and Ningbo city, and Ningbo high-tech innovation enterprise. Our products are regarded as famous brand in Ningbo. We have been responsible for national torch projects and major scientific & technological achievements transformation projects several times. We won the first prize, second prize and third prize of Zhengjiang and Ningbo science and technology advancement award several times.

[企业展示] Company Shows

公司大门
Company Gate

公司全景
Company Overview

研发中心
R&D Center

工艺研究所
Mechanical Technology Institute

与德国专家技术交流
Communication with Expert

德国专家在本公司办公
German Experts Study

马达装配车间
Motor Assembly

静液压驱动装配车间
Hydrostatic Assembly

绞车装配车间
Winch Assembly

一号金工车间
1# Metalworking Workshop

二号金工车间
2# Metalworking Workshop

三号金工车间
3# Metalworking Workshop

绞车试验台
Winch Testing

静液压驱动试验室
Hydrostatic Lab

齿轮磨床
Gear Grinding Machine

三坐标测量仪
Three Coordinate Measuring Machine

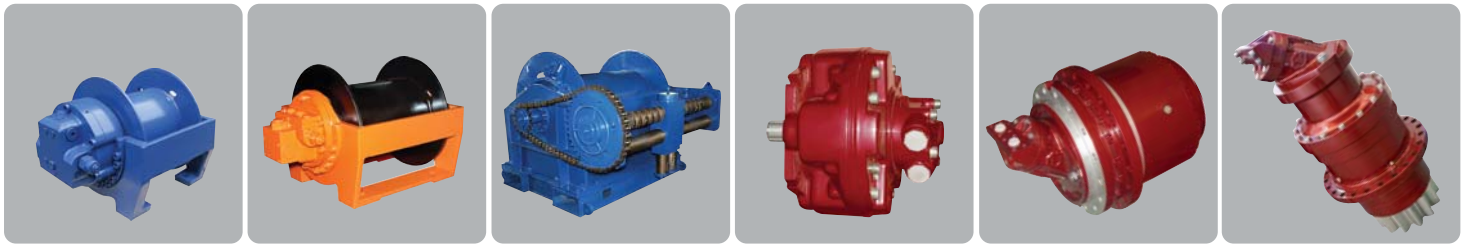
瑞士进口数控精密万能磨床
CNC precision universal grinding machine imported from Switzerland

德国／日本进口卧式加工中心
Horizontal machining center imported from Germany and Japan

德国／日本进口双主轴车铣镗复合加工中心
Double-spindle turning & milling & boring machining center imported from Germany and Japan

日本进口双主轴车铣镗复合自动加工中心
Automatic double-spindle turning & milling & boring machining center imported from Japan

产品展示 & 应用
Product Shows & Applications



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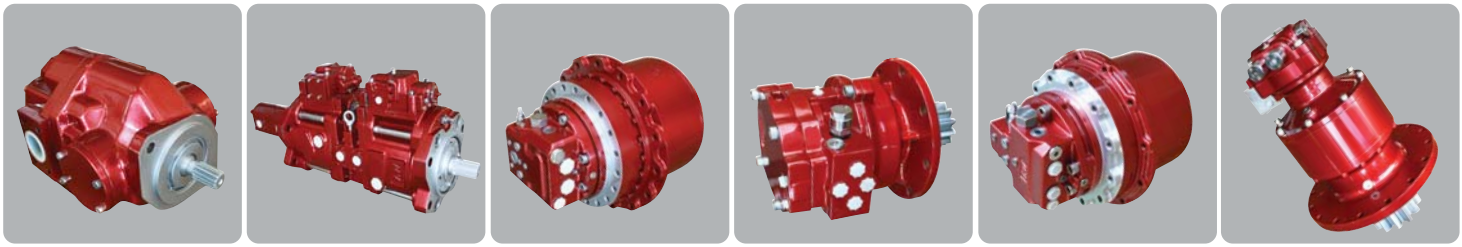
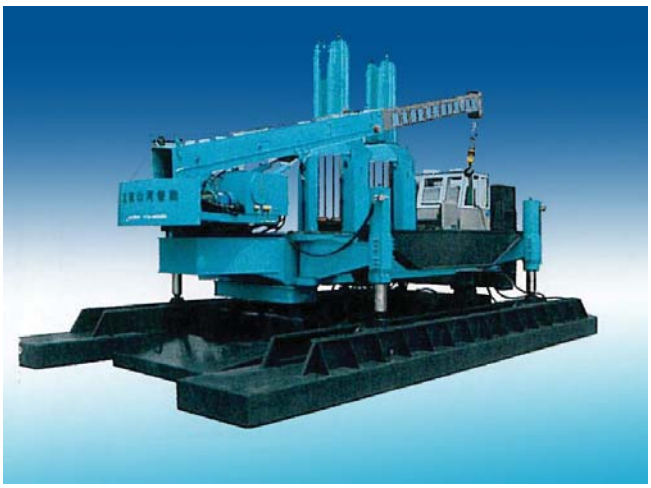




产品展示 & 应用
Product Shows & Applications

产品展示 & 应用
Product Shows & Applications

意 宁 液 压
INI HYDRAULIC

[目录] Contents

2012 版:

2013 版:

2014 版:

第二册：绞车
Section 2: winch

IYJ-N 系列内藏式液压绞车

1. 概述

IYJ-N系列内藏式液压绞车是由本公司自主研发，并已申请多项发明和实用新型专利。绞车主要由低速马达或轴向柱塞马达、Z型液压常闭多片式制动器、KC型行星减速器、机架、卷筒、支承轴等组成。并可根据各种工况要求带不同的配流器，配流器中集成了相应的液压阀，如平衡阀、过载阀、高压梭阀等。该系列绞车具有结构紧凑、体积小、重量轻、外形美观等特点，在性能方上则具有安全性好、低速稳定性好、噪音小，操作可靠等特点，该产品主要用在随车起重机、汽车起重机、高空作业车等设备中，产品不但畅销三一重工等国内企业，并已出口到美国、奥地利、俄罗斯、澳大利亚、荷兰、印尼、韩国等国家。

2. 型号说明

IYJ ＊-＊-＊-＊-＊-Z P N＊

- 结构型式：A-单速带绳槽卷筒，D-单速光筒，B-双速，C-无机架
- 内藏式液压绞车
- 带平衡阀，无此字母表示不带平衡阀
- 带多片盘式制动器，无此字母表示不带多片盘式制动器
- 钢丝绳直径(mm)
- 容绳量(m)
- 额定拉力(kN)
- 行星减速器齿轮模数
- 意宁牌液压绞车

3. 型号举例

IYJ22-20-55-10-ZPND表示行星减速器一级、二级齿轮模数分别为2、2，绞车额定拉力为20kN，容绳量为55m，钢丝绳直径为10mm，带多片盘式制动器及平衡阀，内藏式、单速。

4. 参数说明

a. 总排量是指卷筒每转所需供给的理论供油流量(ml/r)。
b. 供油流量是指泵的理论供油流量，即在考虑系统容积效率在0.85～0.94情况下的计算值(L/min)。
c. 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卷筒最少保留3圈钢丝绳，以防绳头脱出。

IYJ-N series hydraulic winches

1. Brief introduction

IYJ series hydraulic winches adopt our patented technology and advanced manufacture method.And they are mainly consist of gerotor and 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 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,Indonsia,Korea and other areas in the world.

2. Model options

IYJ ＊-＊-＊-＊-Z P N＊

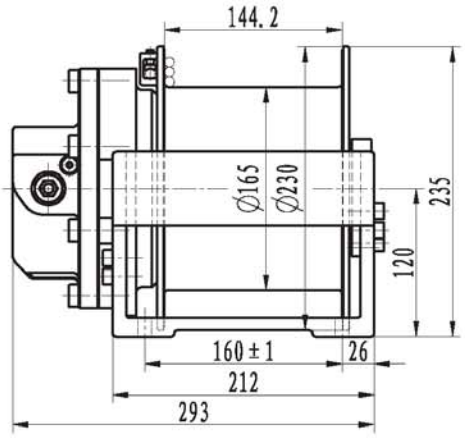
- Structure model: A-single speed groove drum B-double speed D-single speed bare drum C-without frame
- N-concealed winch
- P-represents with counterbalance valve
- Z-represents with brake
- Diameter of rope (mm)
- Capacity of rope (m)
- Rated single line pull on 1st layer (kN)
- Module of planetary gearbox
- Basic prefix of hydraulic winch

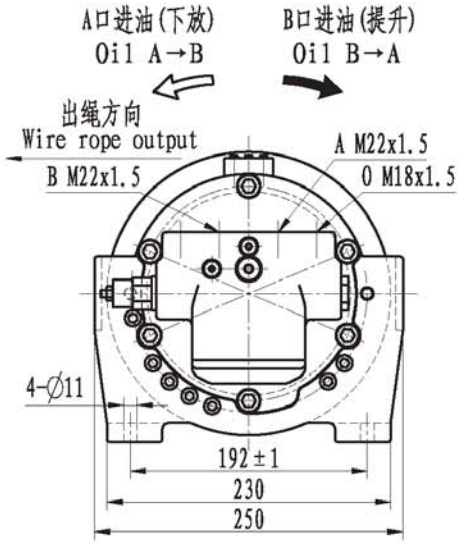
3. Options example

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,the winch is fitted with brake, counterbalance valve ,and structure model is D.

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.





型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ11-5-55-6-ZPN	5	40	336.8	11	28	6	4	55	IM17	KC11 (i=19.81)
IYJ11-8-30-8-ZPN	8	40	336.8	17	28	8	3	30	IM17	
IYJ11-10-30-8-ZPN	10	40	515.1	14	42	8	3	30	IM26	
IYJ11-12-18-10-ZPN	12	40	515.1	17	42	10	2	18	IM26	

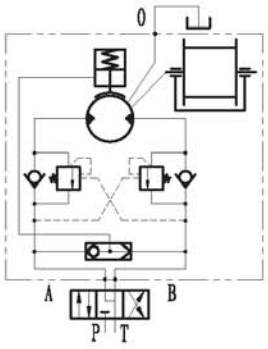
说明：绞车出厂时平衡阀装在B口油道上，A口油道上装堵头，用户需反向提升时，可将平衡阀与堵头对调安装。液压原理图中的双向平衡阀仅表示绞车可通过调换平衡阀实现反向提升，并非安装两个平衡阀。

警告：本绞车不允许载人提升或下放！

Note: The counterbalance valve is usually installed in the B-port. The hoisting direction is indicated on the winch drawing.
If necessary the hoisting direction can be changed by changing the position of the counterbalance valve to the A-port.

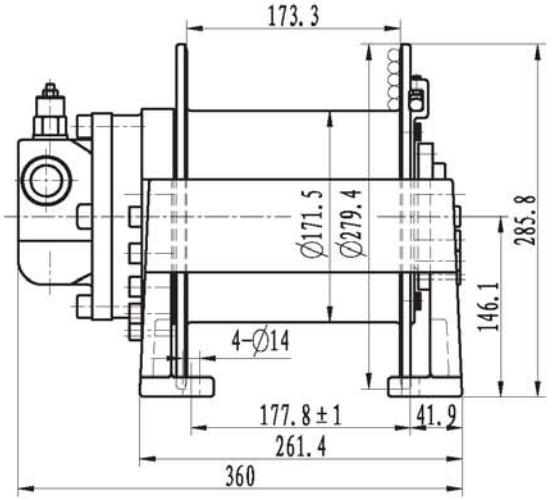
Warning: This winch may never be used for hoisting people or hoisting objects above people.

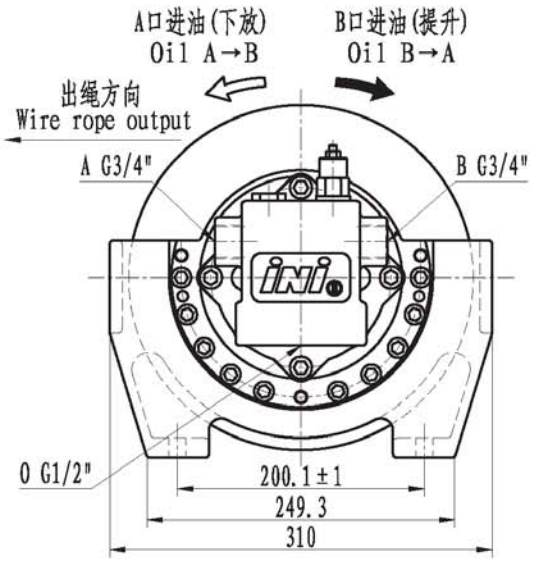
液压原理图
Hydraulic principle diagram



备注：1. 总排量为卷筒每转一转的供油量；
2. 供油流量是泵的理论流量，即在考虑系统容积效率为0.85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。

Note:
1. The total displacement represents the needed oil volume for one revolution of the winch drum;
2. Oil flow supply indicates the needed oil flow considering a volumetric efficiency of 85%;
3. The wire rope capacity is the theoretical total wire rope storage. Three safety windings on the first layer minimum should be deducted always. This is the usable wire rope storage.





型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2-6.4-118-7-ZPN	6.4	33	414.8	12	30	7	7	118	BM5-125	KC2 (i=3.318)
IYJ2-10.2-86-8-ZPN	10.2	28.5	663.6	12	40	8	6	86	BM5-200	
IYJ2-15-55-10-ZPN	15	23	829.5	14	40	10	5	55	BM5-250	
IYJ2-20-55-10-ZPN	20	40	929	17	76	10	5	55	BM5-280	

说明：绞车出厂时平衡阀装在B口油道上，A口油道上装堵头，用户需反向提升时，可将平衡阀与堵头对调安装。液压原理图中的双向平衡阀仅表示绞车可通过调换平衡阀实现反向提升，并非安装两个平衡阀。

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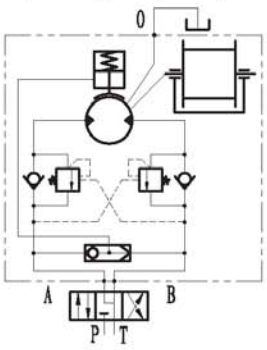
Hydraulic principle diagram



Note: The counterbalance valve is usually installed in the B-port. The hoisting direction is indicated on the winch drawing.
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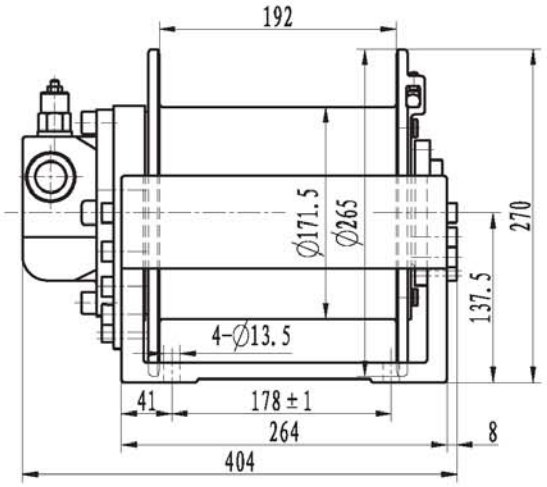

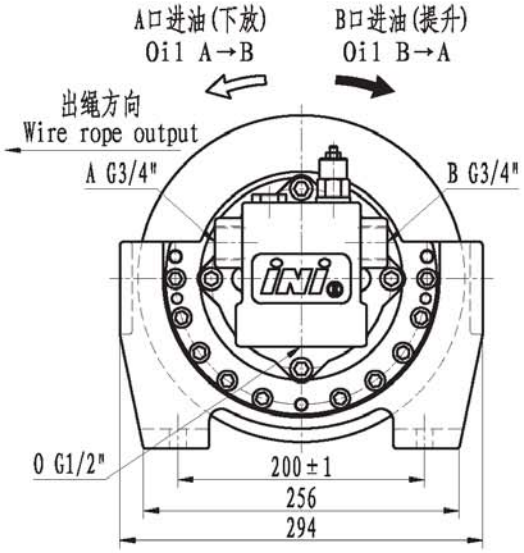

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	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2-6.4-108-7-ZPNA	6.4	33	414.8	12	30	7	6	108	BM5-125	KC2 (i=3.318)
IYJ2-10.2-76-8-ZPNA	10.2	28.5	663.6	12	40	8	5	76	BM5-200	
IYJ2-15-48-10-ZPNA	15	23	829.5	14	40	10	4	48	BM5-250	
IYJ2-20-48-10-ZPNA	20	40	929	17	76	10	4	48	BM5-280	

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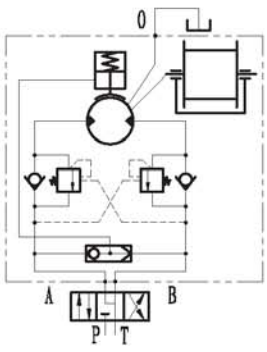

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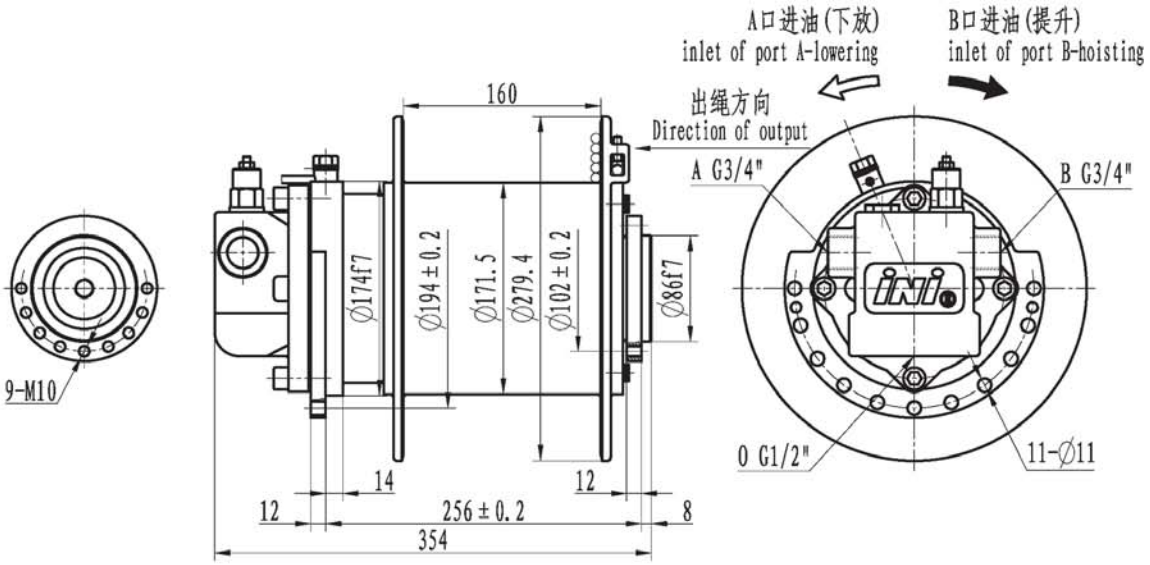

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	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2-6.4-108-7-ZPNC	6.4	33	414.8	12	30	7	7	108	BM5-125	KC2 (i=3.318)
IYJ2-10.2-78-8-ZPNC	10.2	28.5	663.6	12	40	8	6	78	BM5-200	
IYJ2-15-50-10-ZPNC	15	23	829.5	14	40	10	5	50	BM5-250	
IYJ2-20-50-10-ZPNC	20	40	929	17	76	10	5	50	BM5-280	

说明：绞车出厂时平衡阀装在B口油道上，A口油道上装堵头，用户需反向提升时，可将平衡阀与堵头对调安装。液压原理图中的双向平衡阀仅表示绞车可通过调换平衡阀实现反向提升，并非安装两个平衡阀。

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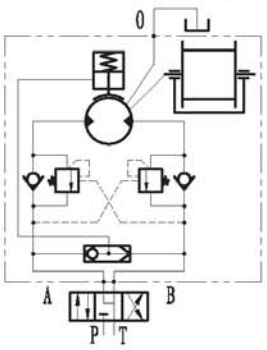
液压原理图
Hydraulic principle diagram



Note: The counterbalance valve is usually installed in the B-port. The hoisting direction is indicated on the winch drawing.
If necessary the hoisting direction can be changed by changing the position of the counterbalance valve to the A-port.

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备注：1. 总排量为卷筒每转一转的供油量；
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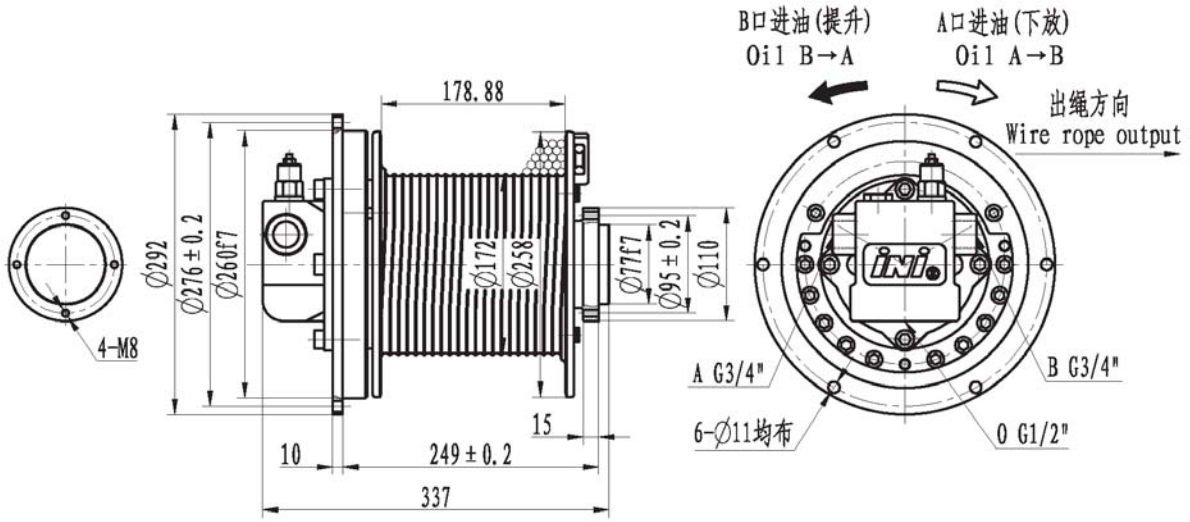
3. 容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出。

Note:
1. The total displacement represents the needed oil volume for one revolution of the winch drum;
2. Oil flow supply indicates the needed oil flow considering a volumetric efficiency of 85%;
3. The wire rope capacity is the theoretical total wire rope storage. Three safety windings on the first layer minimum should be deducted always. This is the usable wire rope storage.



型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2-5-70-8-ZPND	5	38	530.9	7	40	8	5	70	BM5-160	KC2 (i=3.318)
IYJ2-7.5-70-8-ZPND	7.5			10						
IYJ2-8-70-8-ZPND	8			11						
IYJ2-10-70-8-ZPND	10			14						

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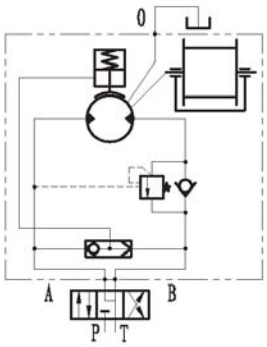
液压原理图
Hydraulic principle diagram



Note:

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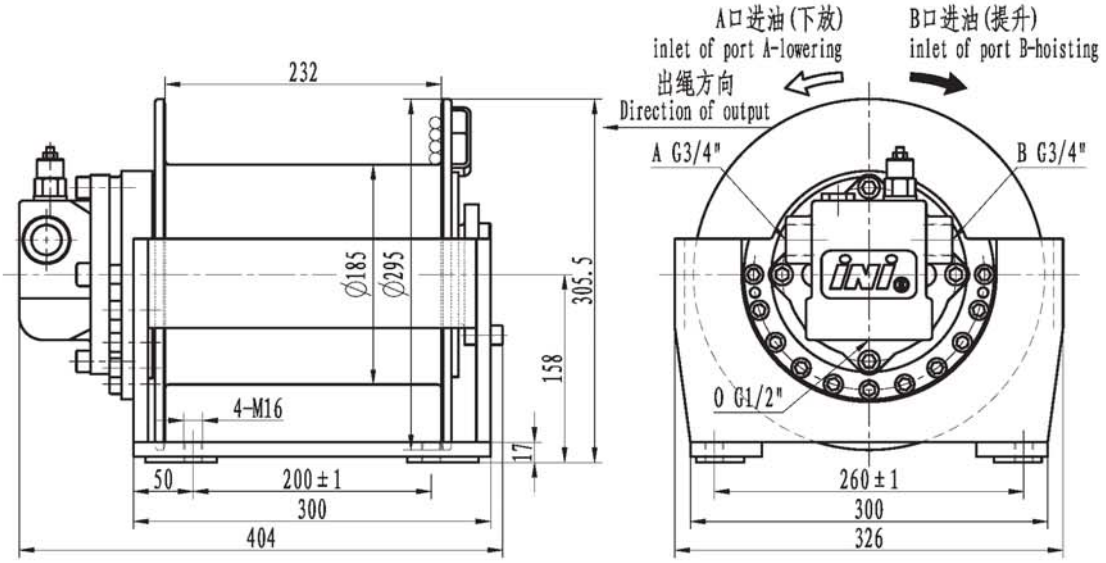
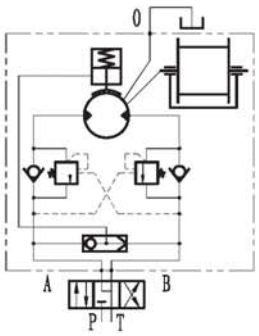


型号 Model	第一层 The 1st layer 拉力 Pull (kN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
IYJ2-6-140-7-ZPNB	6	33	608.4	8	38	7	6	140	BM5-125	KC2-B (i=4.867)
IYJ2-10-100-8-ZPNB	10			13		8	5	100		
IYJ2-15-85-10-ZPNB	15	23	1362.8	9	60	10	4	85	BM5-280	
IYJ2-20-85-10-ZPNB	20			12		10				

液压原理图
Hydraulic principle diagram



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Note: The counterbalance valve installed in Port B pipeline, and plug valve installed in Port A pipeline when the winch leave factory. If customer need hoisting direction in reverse, please interchange the counterbalance valve and plug valve between Port B and Port A. The two counterbalance valve showed in hydraulic diagram only illuminated the hoisting direction can be changed by interchange counterbalance valve and plug valve, not truely installation two counterbalance valve.

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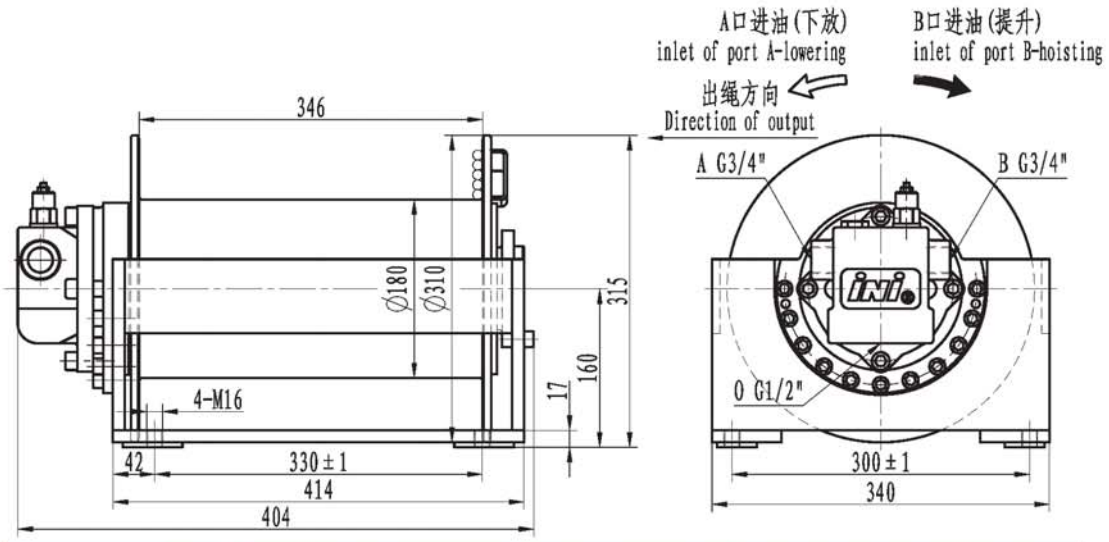
Note: 1. Total displacement represents the capacity of oil supply pre revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.



型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2-6-300-7-ZPNF	6	43	778.7	6	60	7	8	285	BM5-160	KC2-B (i=4.867)
IYJ2-10-230-8-ZPNF	10			10		8	7	218		
IYJ2-15-195-10-ZPNF	15			15		10	6	152		
IYJ2-20-195-10-ZPNF	20			19		10				
IYJ2-22.5-195-12-ZPNF	22.5			21		12	5	106		

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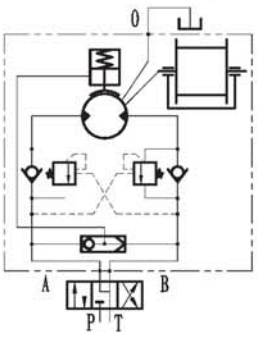
液压原理图
Hydraulic principle diagram



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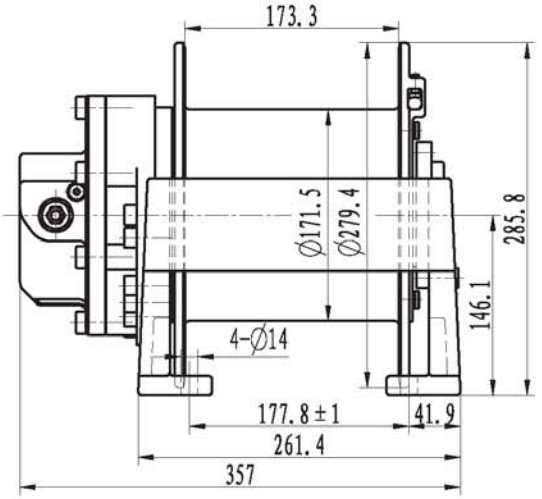

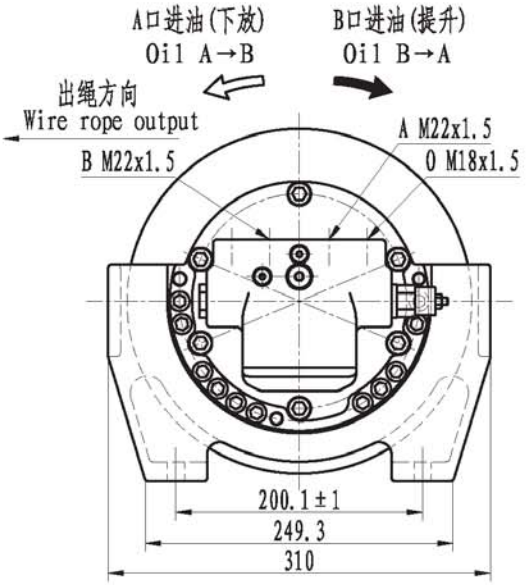

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ22-10-86-8-ZPND	10	40	480.9	16	36	8	6	86	IM22	KC22 (i=21.86)
IYJ22-15-55-10-ZPND	15	40	568.4	21	43	10	5	55	IM26	
IYJ22-20-55-10-ZPND	20	40	644.9	24	49	10	5	55	IM30	
IYJ22-25-38-12-ZPND	25	40	762.9	25	57	12	4	38	IM35	

说明：绞车出厂时平衡阀装在B口油道上，A口油道上装堵头，用户需反向提升时，可将平衡阀与堵头对调安装。液压原理图中的双向平衡阀仅表示绞车可通过调换平衡阀实现反向提升，并非安装两个平衡阀。

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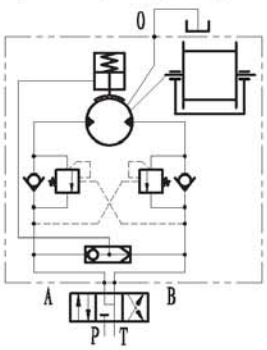
液压原理图
Hydraulic principle diagram



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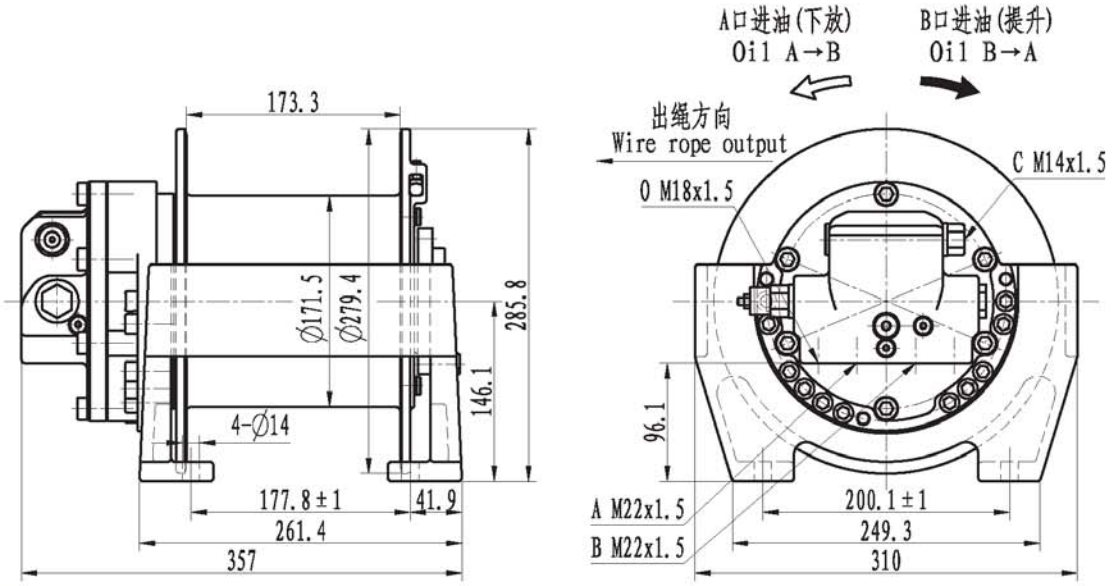

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ22-10-86-8-ZPNB	10/5	30/60	480.9/240.5	16/16	27	8	6	86	IM22/11	KC22 (i=21.86)
IYJ22-15-55-10-ZPNB	15/5	20/46	568.4/240.5	21/17	21	10	5	55	IM26/11	
IYJ22-20-55-10-ZPNB	20/5	30/60	644.9/327.9	24/13	36	10	5	55	IM30/15	
IYJ22-25-38-12-ZPNB	25/5	35/54	762.9/496.2	25/9	50	12	4	38	IM35/23	

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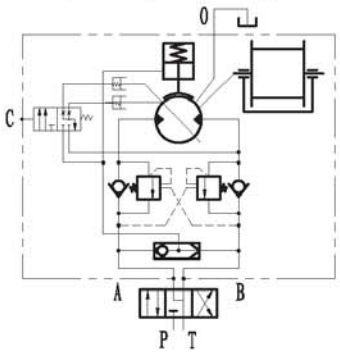
液压原理图
Hydraulic principle diagram



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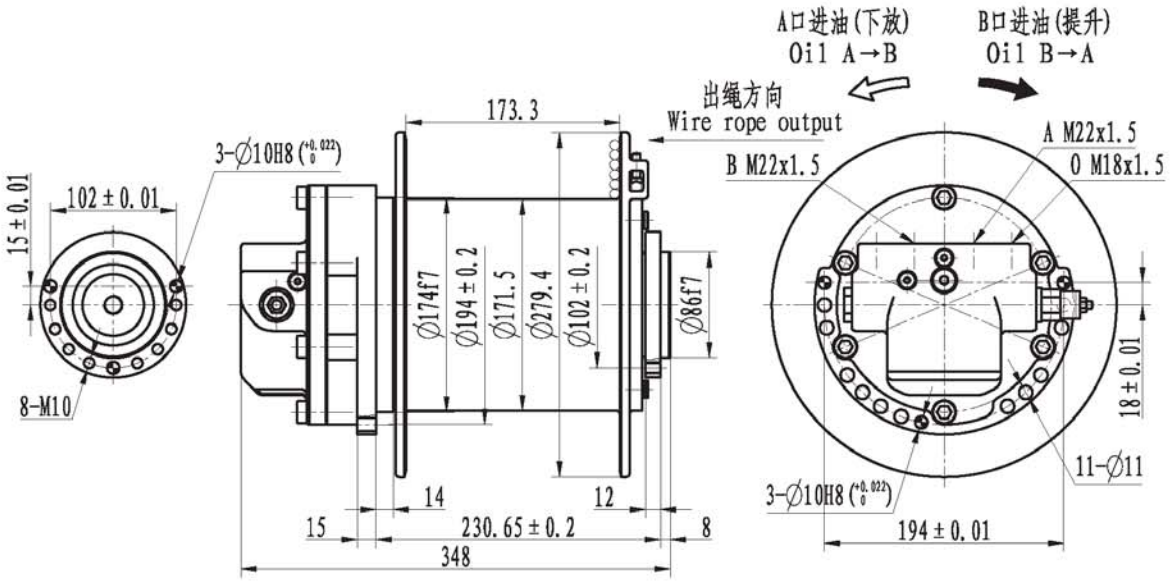

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ22-10-86-8-ZPNC	10	40	480.9	16	36	8	6	86	IM22	KC22 (i=21.86)
IYJ22-15-55-10-ZPNC	15	40	568.4	21	43	10	5	55	IM26	
IYJ22-20-55-10-ZPNC	20	40	644.9	24	49	10	5	55	IM30	
IYJ22-25-38-12-ZPNC	25	40	762.9	25	57	12	4	38	IM35	

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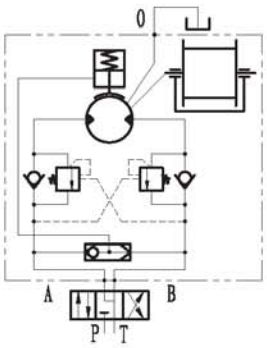
液压原理图
Hydraulic principle diagram



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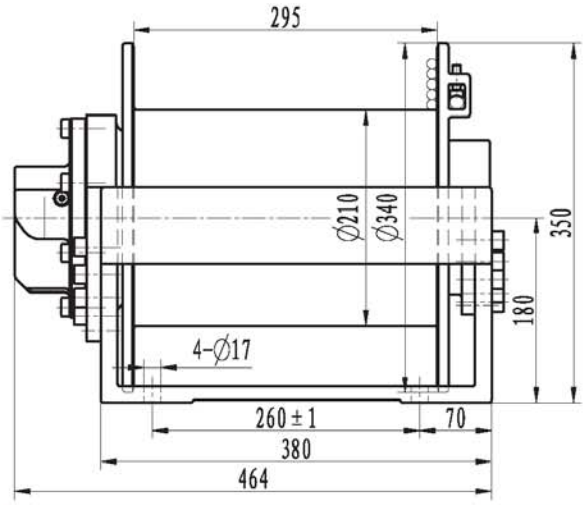

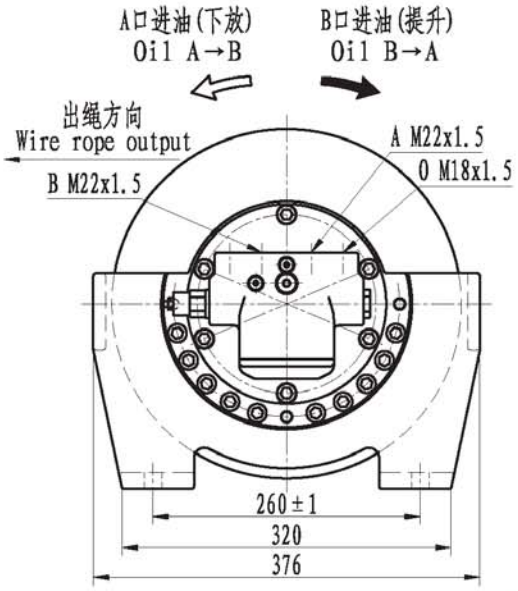

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-25-76-12-ZPNA	25	35	1064.2	22	57	12	4	76	IM26	KC2.52.5-A (i=40.93)
IYJ2.52.5-30-72-13-ZPNA	30	30	1207.5	24	56	13	4	72	IM30	
IYJ2.52.5-35-72-13-ZPNA	35	26	1428.5	23	57	13	4	72	IM35	
IYJ2.52.5-40-72-13-ZPNA	40	26	1428.5	27	57	13	4	72	IM35	

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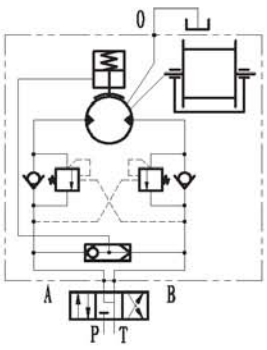

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3. 容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出。

Note:
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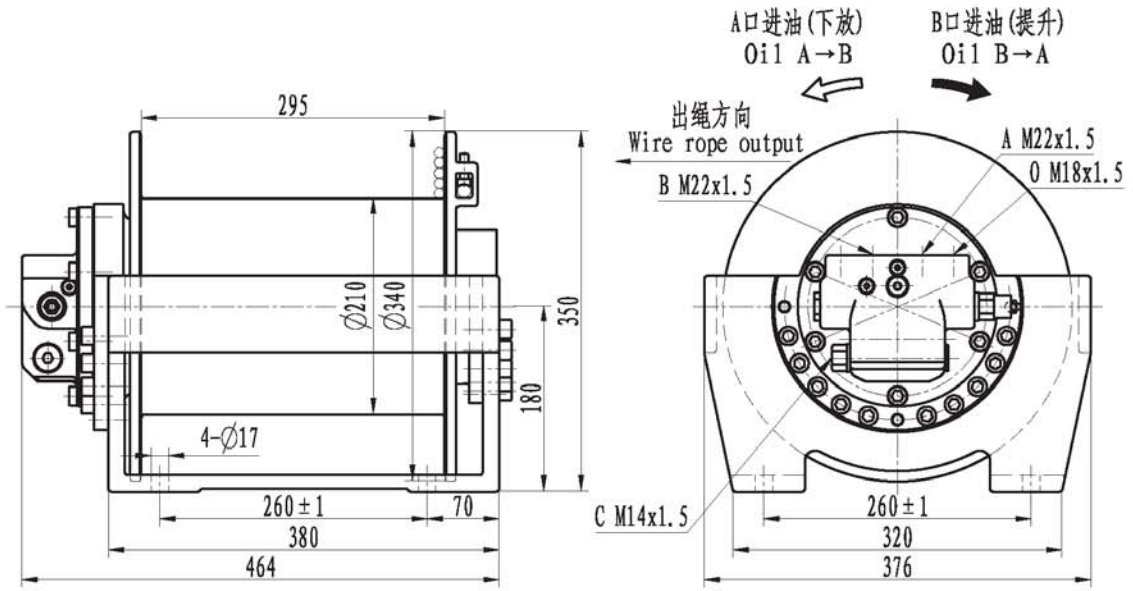

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-25-76-12-ZPNB	25/10	15/35	1064.2/450.2	22/22	24	12	4	76	IM26/11	KC2.52.5-A (i=40.93)
IYJ2.52.5-30-72-13-ZPNB	30/10	18/35	1207.5/614.0	24/16	33	13	4	72	IM30/15	
IYJ2.52.5-35-72-13-ZPNB	35/10	25/35	1428.5/929.1	23/11	55	13	4	72	IM35/23	
IYJ2.52.5-40-72-13-ZPNB	40/10	25/35	1428.5/929.1	27/11	55	13	4	72	IM35/23	

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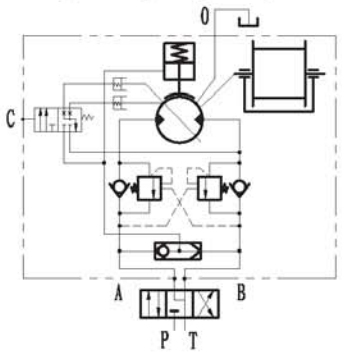
液压原理图
Hydraulic principle diagram



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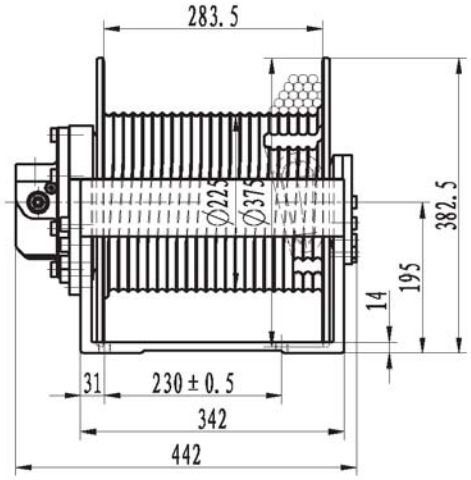

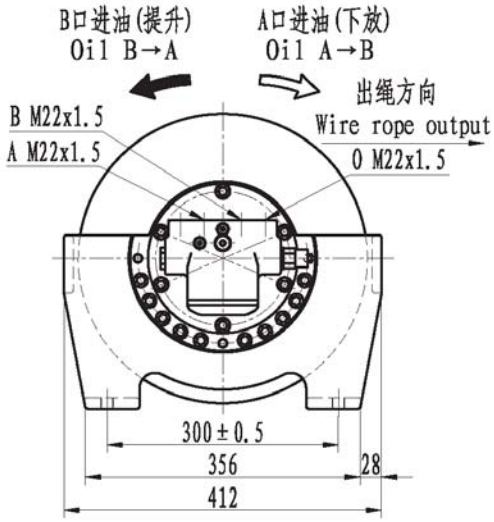

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-15-100-12-ZPNC	15	40	986.5	15	60	12	5	100	IM30	KC2.52.5-B (i=32.45)
IYJ2.52.5-18-100-12-ZPNC	18	40		17						
IYJ2.52.5-20-100-12-ZPNC	20	40		19						
IYJ2.52.5-25-100-12-ZPNC	25	40		24						

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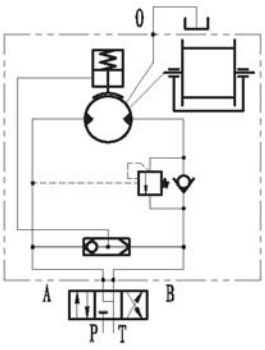
液压原理图
Hydraulic principle diagram



Note:

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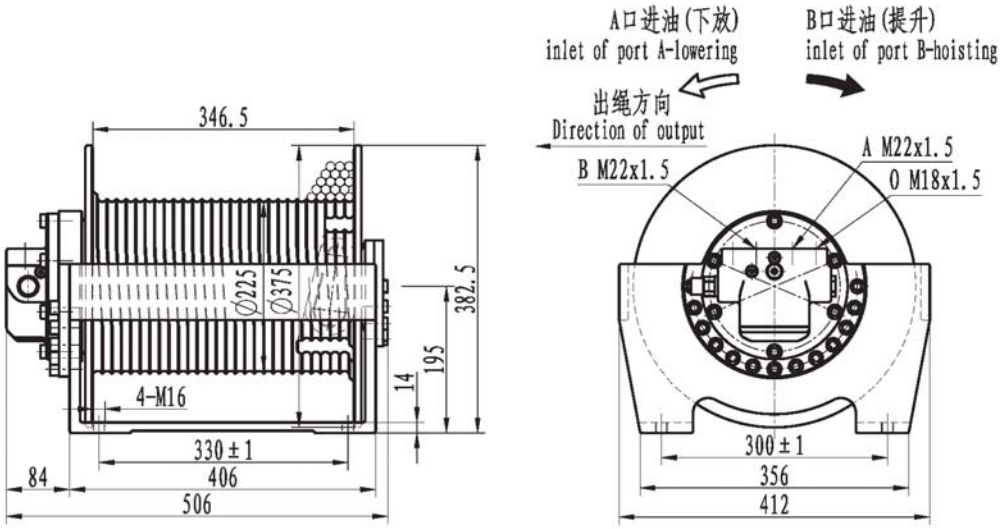

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-20-160-12-ZPND	20	40	843.7	23	50	12	6	160	IM26	KC2.52.5-B (i=32.45)
IYJ2.52.5-25-160-12-ZPND	25	35	986.5	24	52	12	6	160	IM30	

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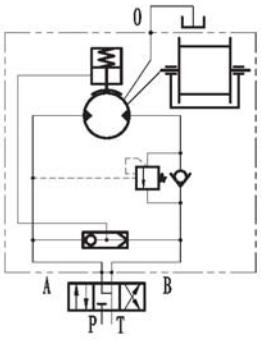
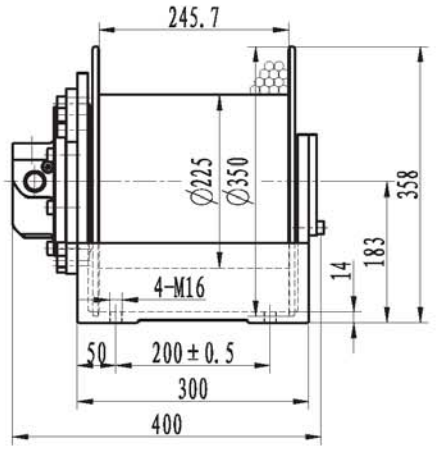
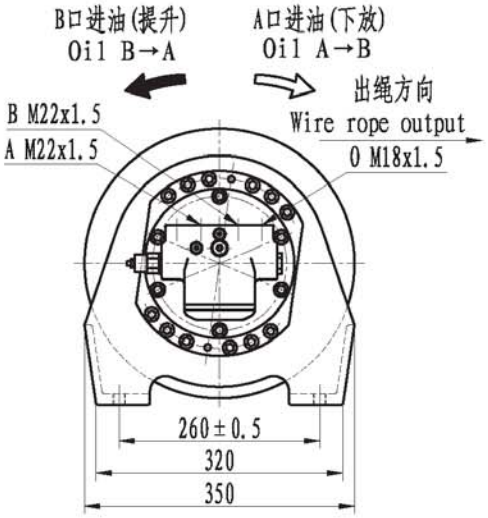
液压原理图
Hydraulic principle diagram







型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-15-100-10-ZPNE	15	40	986.5	15	60	10	5	100	IM30	KC2.52.5-B (i=32.45)
IYJ2.52.5-18-100-10-ZPNE	18	40		17						
IYJ2.52.5-20-100-12-ZPNE	20	40		19		12	4	90		
IYJ2.52.5-25-100-12-ZPNE	25	40		24						

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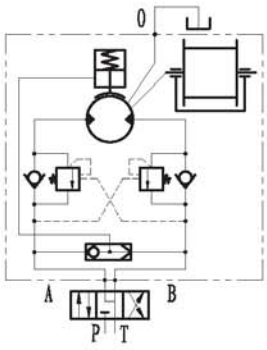
液压原理图
Hydraulic principle diagram



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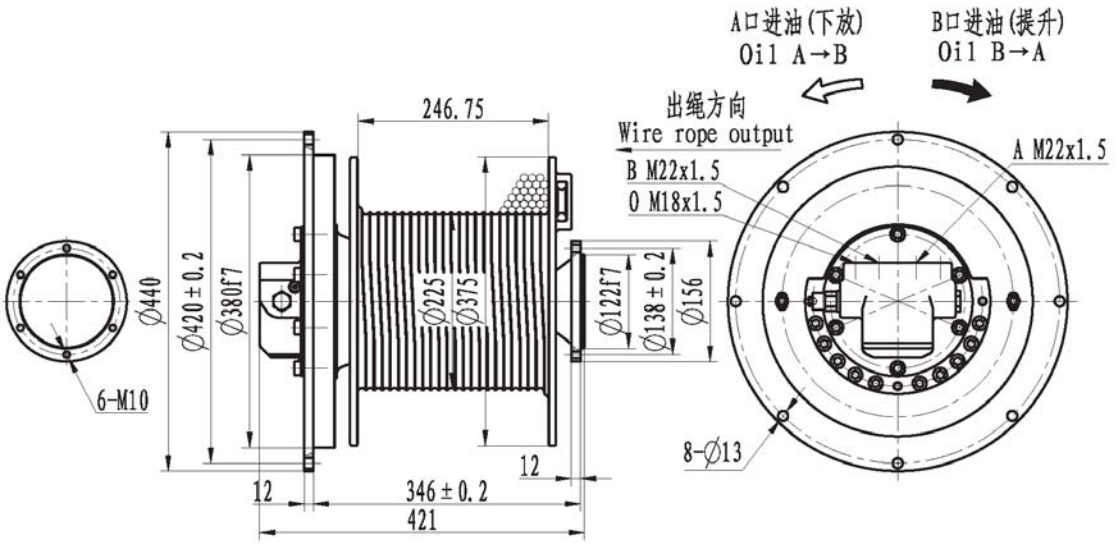

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 (L/min)	钢丝绳直径 (mm)	层数 Layer	容绳量 (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-15-126-10-ZPNF	15	40	986.5	15	60	10	6	126	IM30	KC2.52.5-B (i=32.45)
IYJ2.52.5-18-126-10-ZPNF	18	40		17						
IYJ2.52.5-20-126-10-ZPNF	20	40		19						
IYJ2.52.5-25-126-10-ZPNF	25	40		24						

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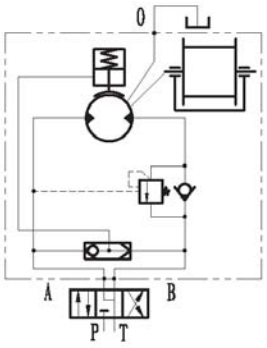
液压原理图

Hydraulic principle diagram



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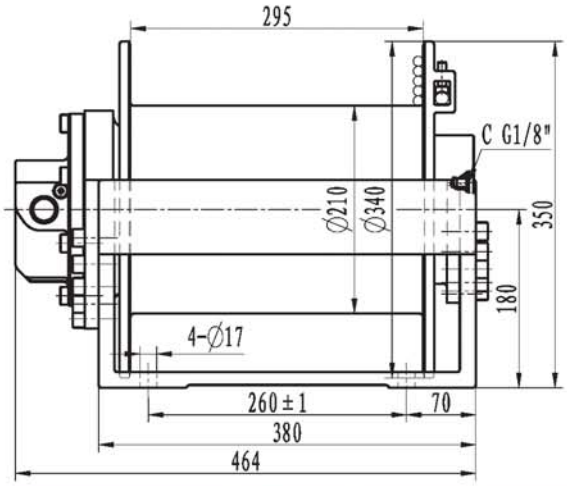

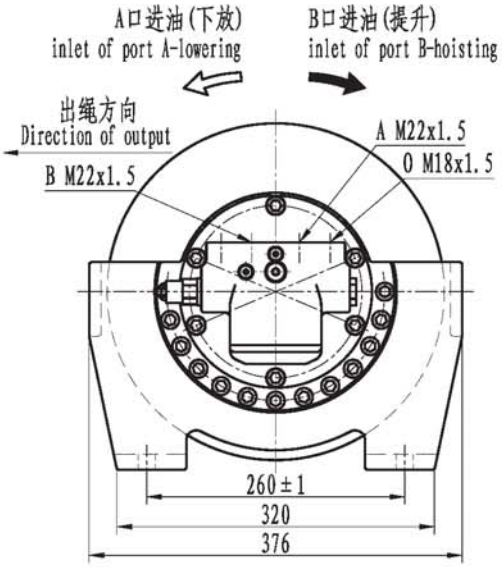

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	额定工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ2.52.5-25-76-12-ZPNL	25	35	1064.2	22	57	12	4	76	IM26	KC2.52.5-A (i=40.93)
IYJ2.52.5-30-72-13-ZPNL	30	30	1207.5	24	56	13	4	72	IM30	
IYJ2.52.5-35-72-13-ZPNL	35	26	1428.5	23	57	13	4	72	IM35	
IYJ2.52.5-40-72-13-ZPNL	40	26	1428.5	27	57	13	4	72	IM35	

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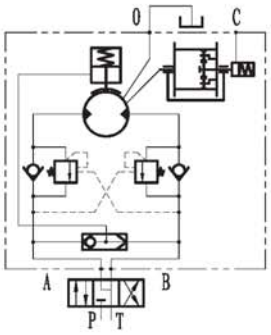
液压原理图
Hydraulic principle diagram



Note: The counterbalance valve installed in Port B pipeline, and plug valve installed in Port A pipeline when the winch leave factory. If customer need hoisting direction in reverse, please interchange the counterbalance valve and plug valve between Port B and Port A. The two counterbalance valve showed in hydraulic diagram only illuminated the hoisting direction can be changed by interchange counterbalance valve and plug valve, not truely installation two counterbalance valve.

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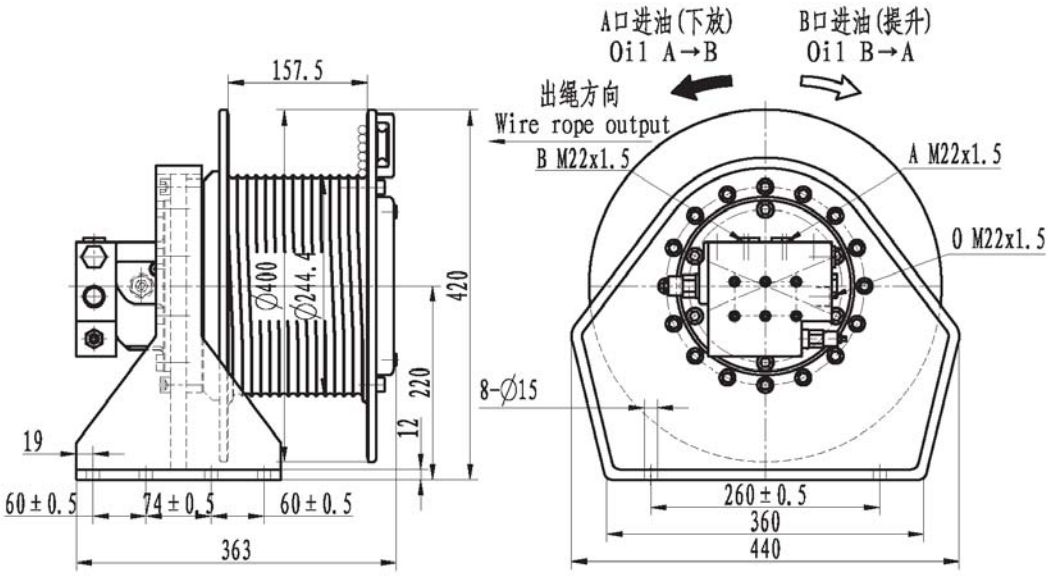

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ23-20-80-10-ZPN	20	51.8	991.8	22	70	10	6	80	IM30	KC22.75 (i=32.626)
IYJ23-25-80-10-ZPN	25	51.8		26						
IYJ23-30-60-12-ZPN	30	40	1138.6	27	63	12	6	60	IM35	KC22.75 (i=32.626)
IYJ23-35-60-12-ZPN	35	40		30						

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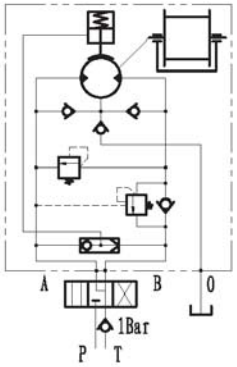
液压原理图
Hydraulic principle diagram



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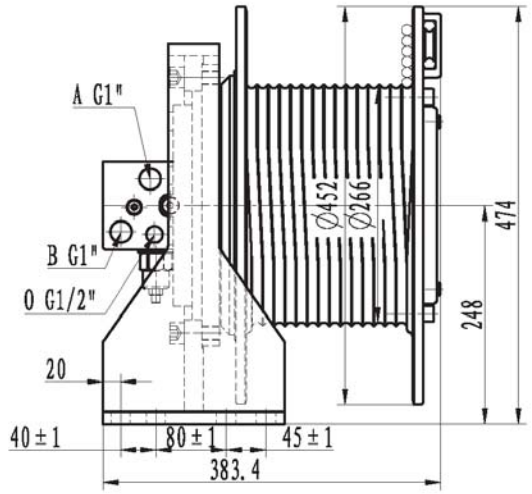

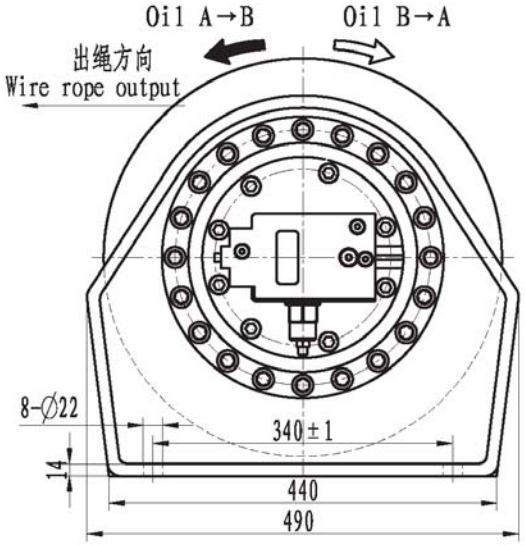

型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压力 Working pressure (MPa)	供油流量 oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ23-35-90-12-ZPN	35	50	1435.2	27	90	12	6	90	IM69	KC23 (i=20.8)
IYJ23-40-90-12-ZPN	40	50		30						
IYJ23-45-80-14-ZPN	45	40	1809.6	28	90	14	6	80	IM87	KC23 (i=20.8)
IYJ23-50-80-14-ZPN	50	40		30						

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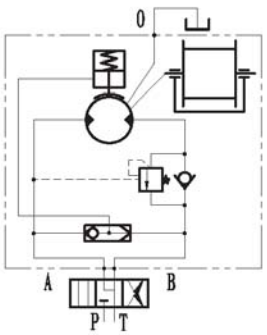
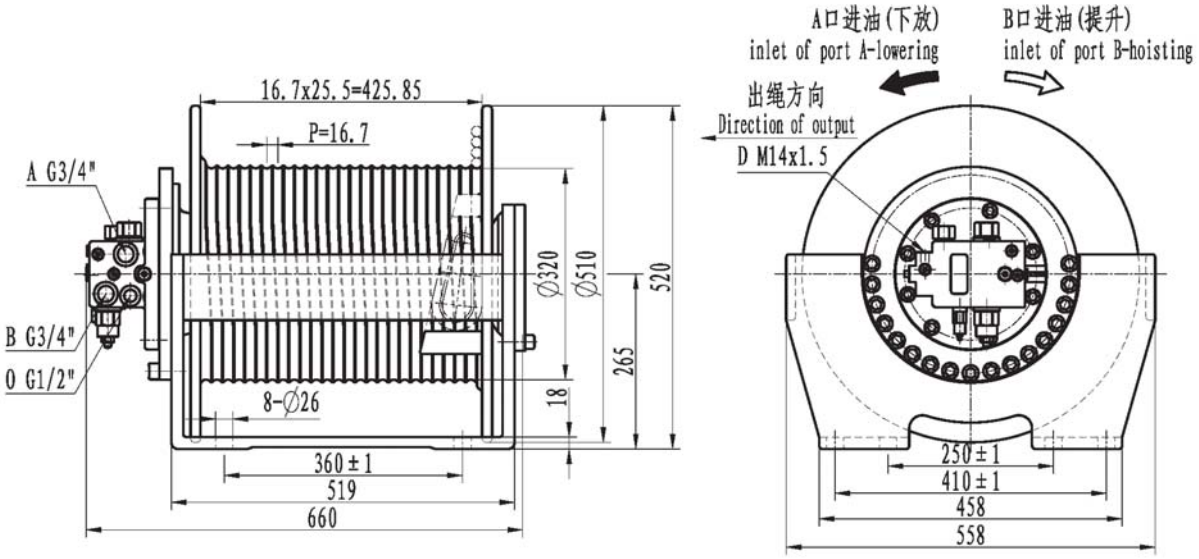
液压原理图
Hydraulic principle diagram





型号 Model	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 (bar)	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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	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)							
IYJ33-40-120-16-ZPNB	40	25	40	80	2933.3	1864.8	200	124	16	4	120	IM87/56	KC33 (i=33.6)
IYJ33-50-120-16-ZPNB	50	32	40	80			240						
IYJ33-55-120-16-ZPNB	55	35	40	80			270						
IYJ33-60-120-16-ZPNB	60	38	40	80			290						

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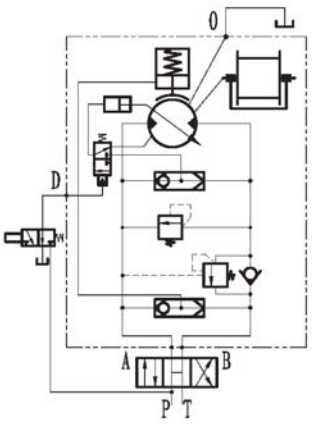
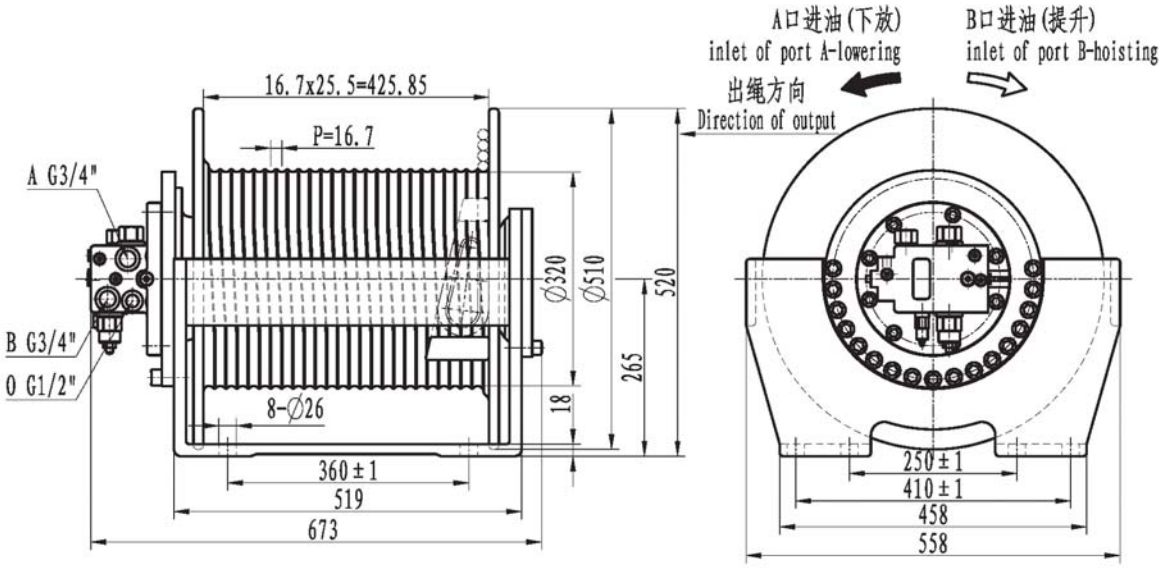
液压原理图

Hydraulic principle diagram



备注：1. 总排量为卷筒每转一转的供油量；
2. 供油流量是泵的理论流量，即在考虑系统容积效率为0.85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圈以防绳头脱出；
4. 离合器开启压力6-8bar，可以采用气动或液压控制。

Note: 1. Total displacement represents the capacity of oil supply per revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand;
4. Clutch open pressure is 6-8bar, can be controled by gas or oil.



型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压力 Working pressure (bar)	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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ33-40-120-16-ZPND	40	26	2933.3	200	80	16	2	56	IM87	KC33 (i=33.6)
IYJ33-50-120-16-ZPND	50	26		240			3	88		
IYJ33-55-120-16-ZPND	55	26		270						
IYJ33-60-120-16-ZPND	60	26		290			4	120		

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2. 供油流量是泵的理论流量，即在考虑系统容积效率为0.85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圈以防绳头脱出。

Note: 1. Total displacement represents the capacity of oil supply per revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
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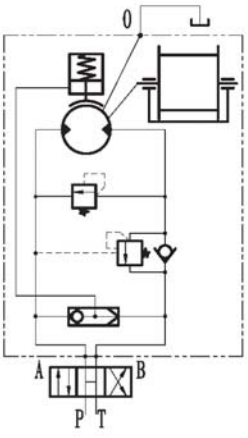
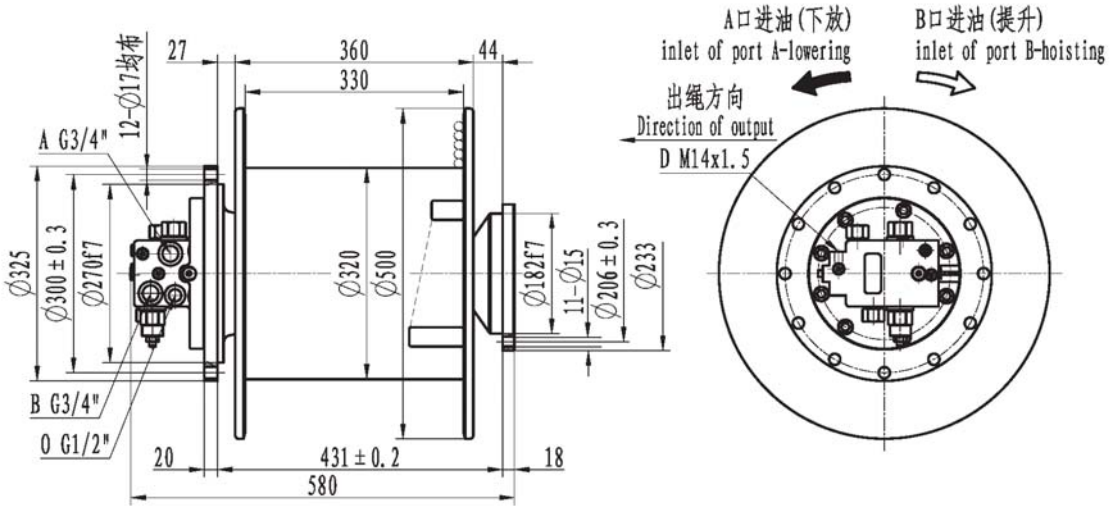
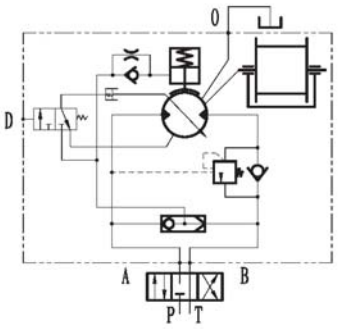
液压原理图
Hydraulic principle diagram





型号 Model	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 (bar)	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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	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)							
IYJ33-40-120-16-ZPNC	40	25	40	80	2933.3	1864.8	200	124	14	5	144	IM87/56	KC33 (i=33.6)
IYJ33-50-120-16-ZPNC	50	32	40	80			240						

液压原理图
Hydraulic principle diagram



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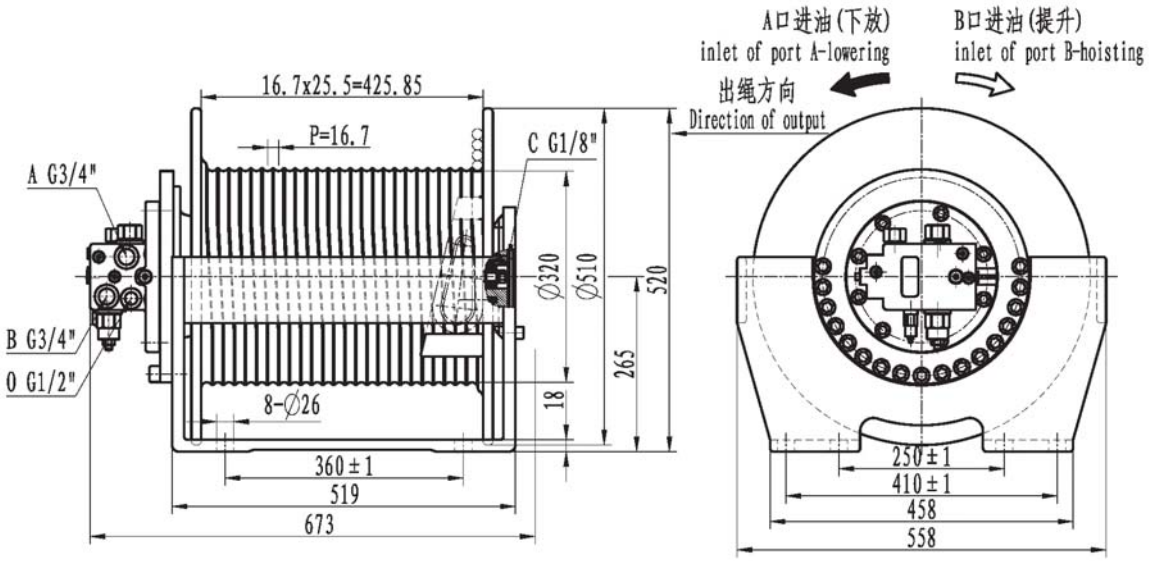
Note: 1. Total displacement represents the capacity of oil supply per revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand.



型号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压力 Working pressure (bar)	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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	拉力 Pull (kN)	绳速 Rope speed (m/min)								
IYJ33-40-120-16-ZPNL	40	26	2933.3	200	80	16	2	56	IM87	KC33 (i=33.6)
IYJ33-50-120-16-ZPNL	50	26		240			3	88		
IYJ33-55-120-16-ZPNL	55	26		270						
IYJ33-60-120-16-ZPNL	60	26		290			4	120		

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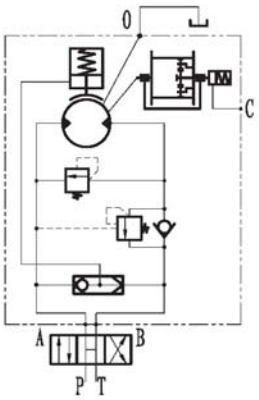
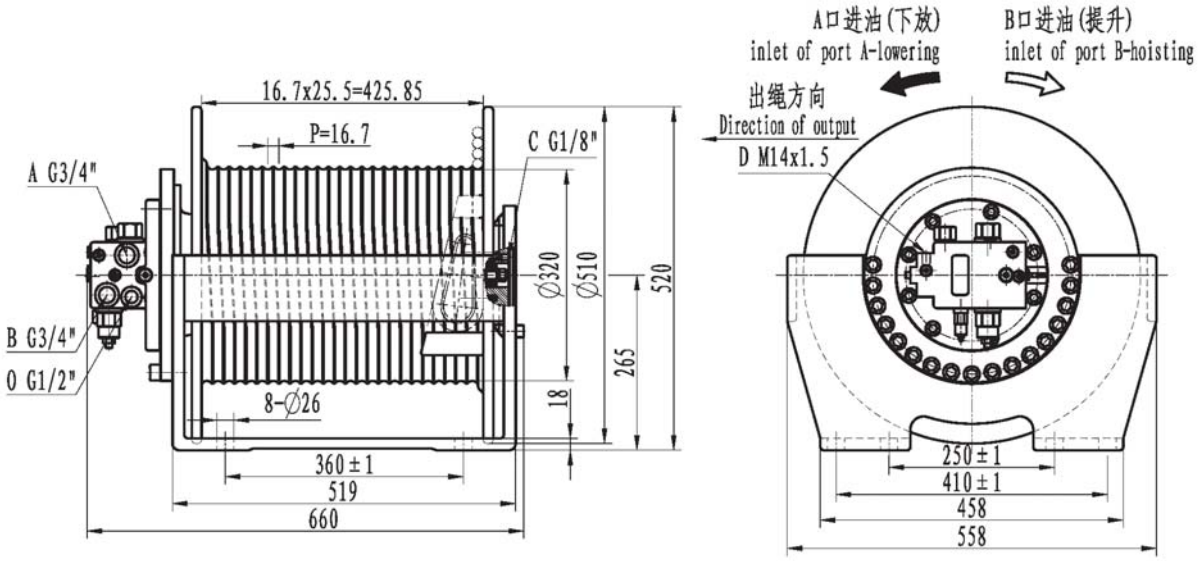
3. 容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出。

Note: 1. Total displacement represents the capacity of oil supply per revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand.

液压原理图
Hydraulic principle diagram





型号 Model	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 (bar)	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)	液压马达型号 Hydraulic motor	减速器型号 Gearbox model (传动比) (Ratio)
	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)							
IYJ33-40-120-16-ZPNBL	40	25	40	80	2933.3	1864.8	200	124	16	4	120	IM87/56	KC33 (i=33.6)
IYJ33-50-120-16-ZPNBL	50	32	40	80			240						
IYJ33-55-120-16-ZPNBL	55	35	40	80			270						
IYJ33-60-120-16-ZPNBL	60	38	40	80			290						

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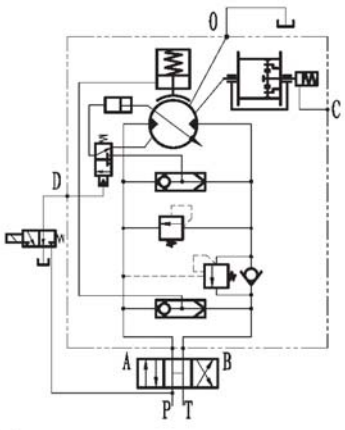
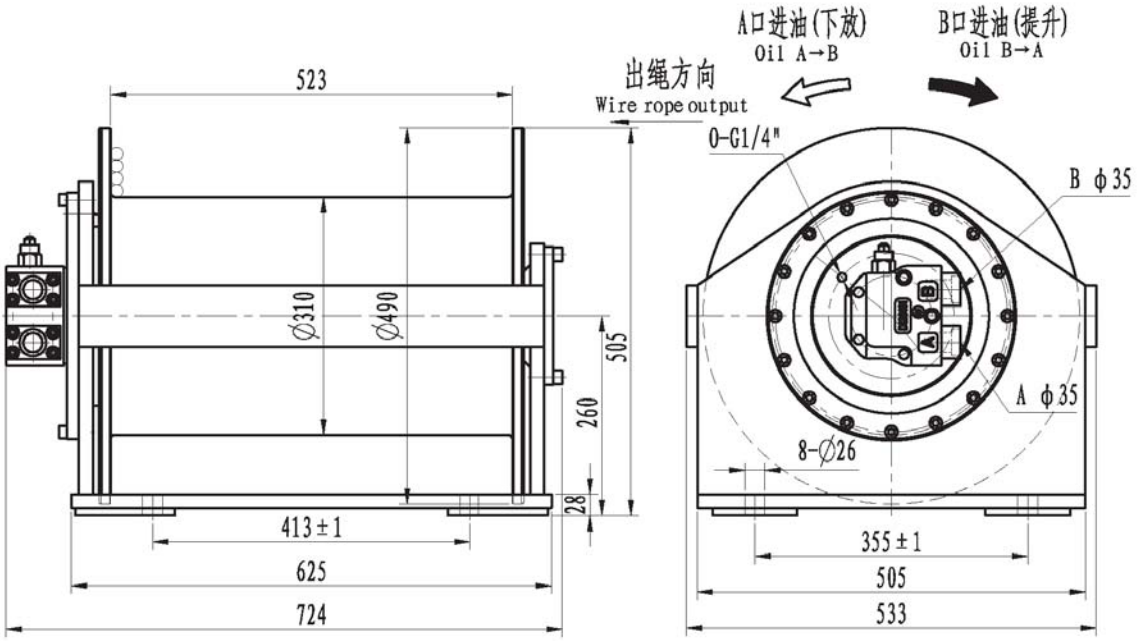
液压原理图
Hydraulic principle diagram



备注: 1. 总排量为卷筒每转一转的供油量;
2. 供油流量是泵的理论流量, 即在考虑系统容积效率为0.85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圈以防绳头脱出;
4. 离合器开启压力6-8bar, 可以采用气动或液压控制。

Note: 1. Total displacement represents the capacity of oil supply per revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand;
4. Clutch open pressure is 6-8bar, can be controled by gas or oil.

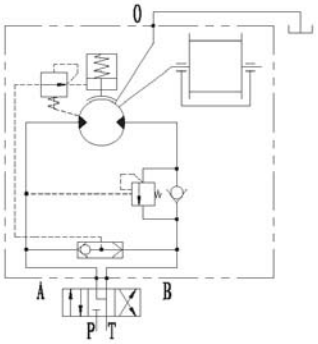


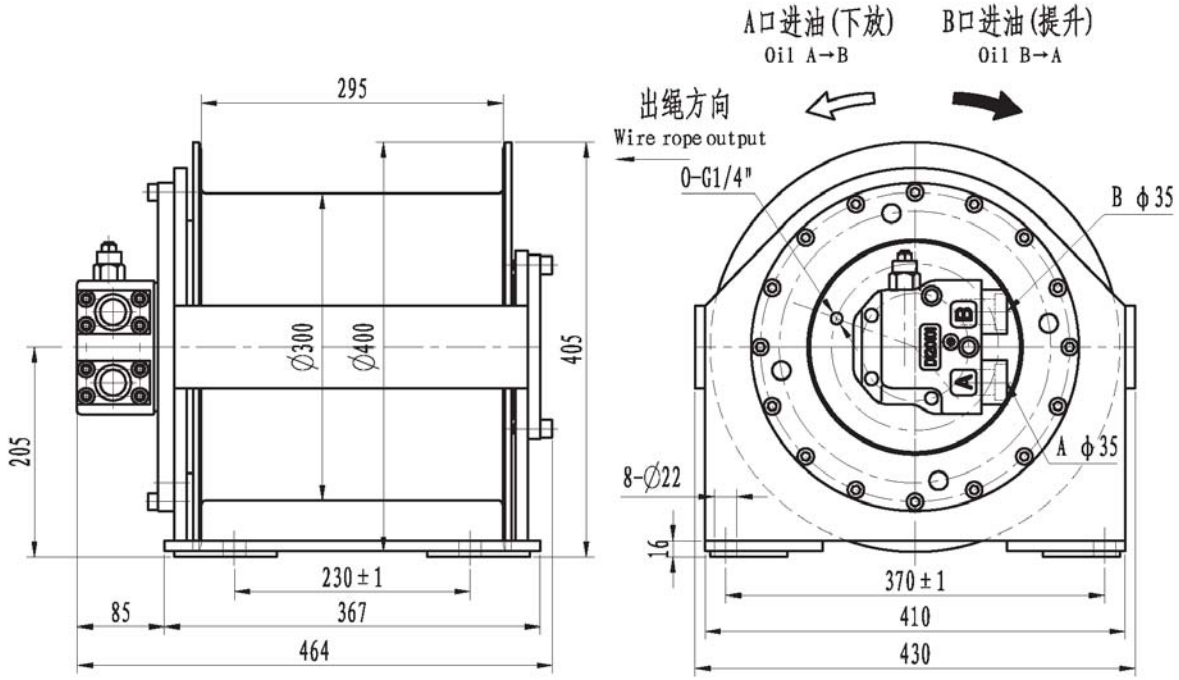
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 Oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	钢丝绳层数 Layer	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
IYJ2.53-25-165-14-ZPN	25	33	1634	19.8	60	14	4	165	INM05-90D120101P	KC2.53(i=19)
IYJ2.53-30-165-14-ZPN	30	25	2185	17.8	60	14	4	165	INM05-110D120101P	KC2.53(i=19)
IYJ2.53-40-149-16-ZPN	40	26	2451	21.3	70	16	4	149	INM05-130D120101P	KC2.53(i=19)
IYJ2.53-50-149-16-ZPN	50	23	3154	20.7	80	16	4	149	INM05-170D120101P	KC2.53(i=19)
IYJ2.53-60-149-16-ZPN	60	21	3629	21.6	80	16	4	149	INM05-200D120101P	KC2.53(i=19)

注：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、若有特殊要求请与我们销售部门联系。

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

液压原理图
Hydraulic principle diagram





型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 Oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	钢丝绳层数 Layer	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
IYJ3-10-122-10-ZPN	10	54	859.5	14.3	56	10	4	122	INM05-170D120101P	KC3(i=4.5)
IYJ3-15-122-10-ZPN	15	55	859.5	21.5	56	10	4	122	INM05-170D120101P	KC3(i=4.5)
IYJ3-20-66-14-ZPN	20	43	1146	21.5	56	14	3	66	INM05-200D120101P	KC3(i=6)

注：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
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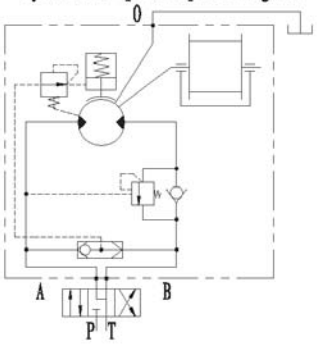
液压原理图
Hydraulic principle diagram



Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
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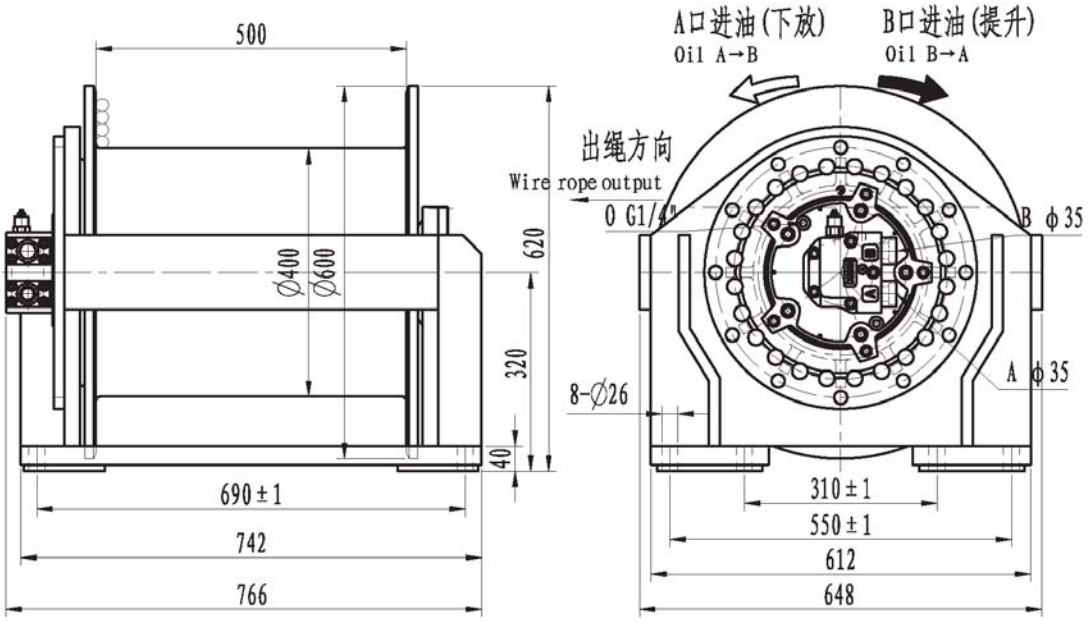

型 号 Model	第一层 The 1st layer		总排量 Total displacement	工作压差 Working pressure diff.	供油流量 Oil flow supply	钢丝绳直径 Rope diameter	钢丝绳层数 Layer	容绳量 Wire rope capacity	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
	拉力 Pull (KN)	绳速 Rope speed (m/min)	(ml/r)	(MPa)	(L)	(mm)		(m)		
IYJ34-60-160-18-ZPN	60	14	5775	16.6	70	18	4	160	INM1-150D120101P	KC34(i=37.5)
IYJ34-70-160-18-ZPN	70	13	6450	17.3	70	18	4	160	INM1-175D120101P	KC34(i=37.5)
IYJ34-80-90-24-ZPN	80	14	7537.5	17.2	90	24	3	90	INM1-200D120101P	KC34(i=37.5)
IYJ34-90-90-24-ZPN	90	12	9112.5	16	90	24	3	90	INM1-250D120101P	KC34(i=37.5)
IYJ34-100-90-24-ZPN	100	12	9112.5	17.8	90	24	3	90	INM1-250D120101P	KC34(i=37.5)

注：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
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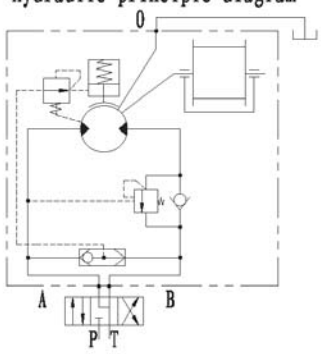
液压原理图
Hydraulic principle diagram



Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
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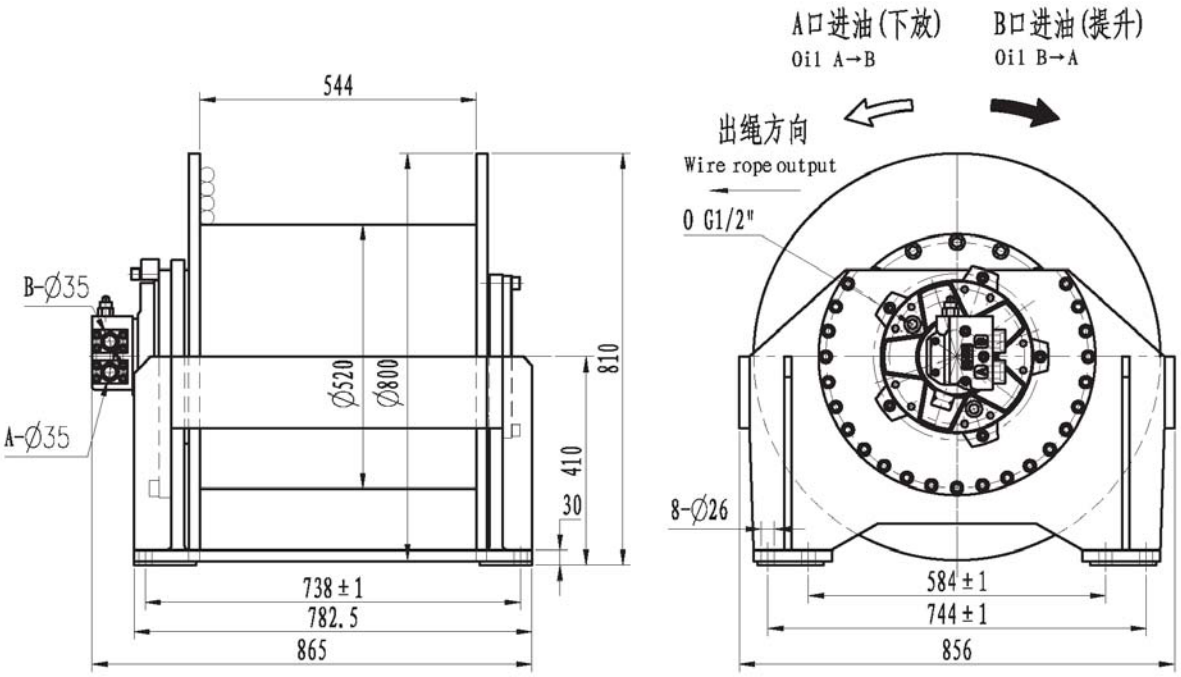

型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff (MPa)	供油流量 Oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	钢丝绳层数 Layer	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
IYJ45-90-169-24-ZPN	90	15	11400	16.5	110	24	4	169	INM2-300D240101P	KC45(i=37.5)
IYJ45-100-169-24-ZPN	100	15	11400	18.3	110	24	4	169	INM2-300D240101P	KC45(i=37.5)
IYJ45-110-154-26-ZPN	110	14	13012.5	17.7	120	26	4	159	INM2-350D240101P	KC45(i=37.5)
IYJ45-120-149-28-ZPN	120	14	13012.5	19.3	120	28	4	149	INM2-350D240101P	KC45(i=37.5)

注：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
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Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
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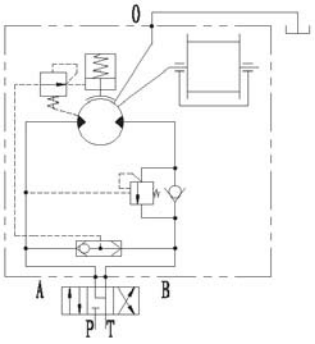
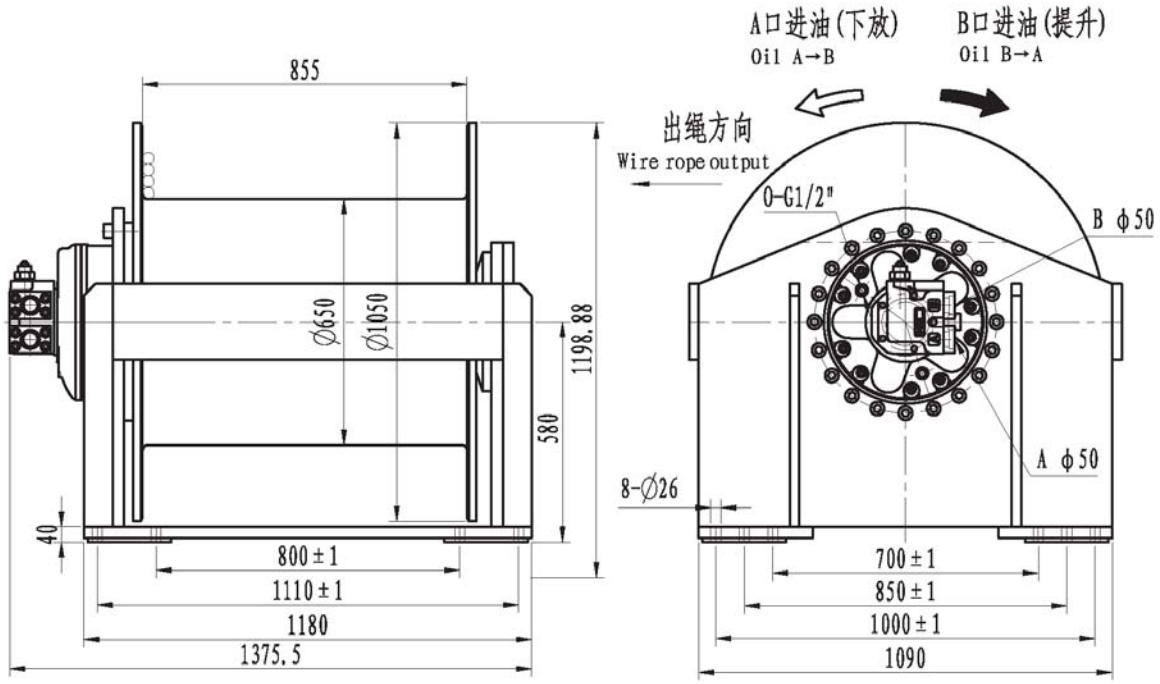
液压原理图
Hydraulic principle diagram

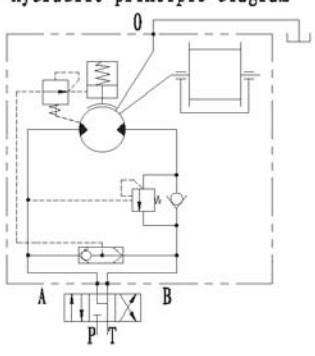




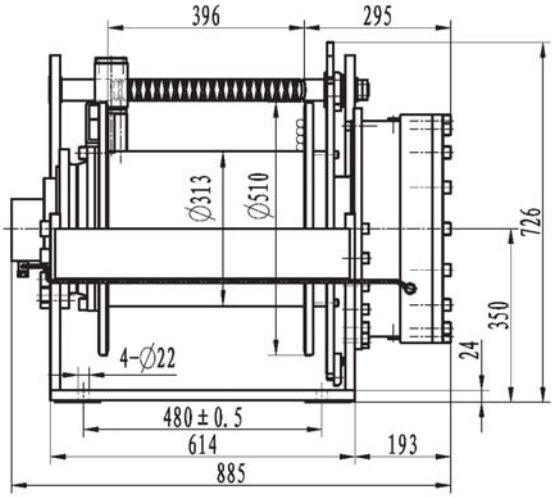
型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff (MPa)	供油流量 Oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	钢丝绳层数 Layer	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
	拉力 Pull (KN)	绳速 Rope speed (m/min)								
IYJ66-140-267-30-ZPN	140	25	19826.8	18	258	30	4	267	INM4-1000D480101P	KC66(i=19.4)
IYJ66-160-253-32-ZPN	160	23	21650.4	18.6	258	32	4	253	INM4-1100D480101P	KC66(i=19.4)
IYJ66-180-229-36-ZPN	180	20	24191.8	18.8	258	36	4	229	INM4-1250D480101P	KC66(i=19.4)
IYJ66-200-229-36-ZPN	200	20	25530.4	19.8	258	36	4	229	INM4-1300D480101P	KC66(i=19.4)

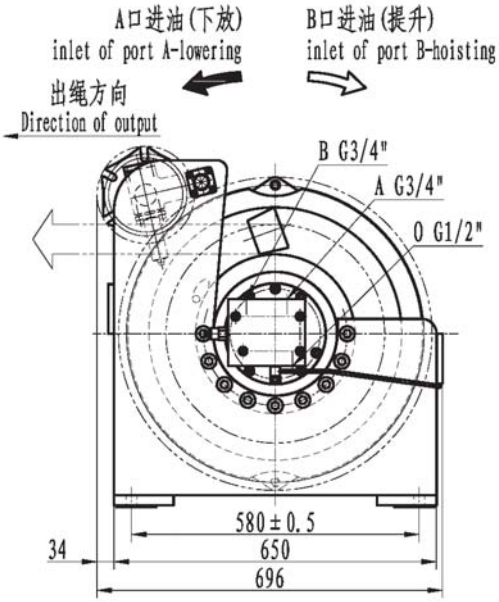
注：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、若有特殊要求请与我们销售部门联系。

液压原理图
Hydraulic principle diagram



Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

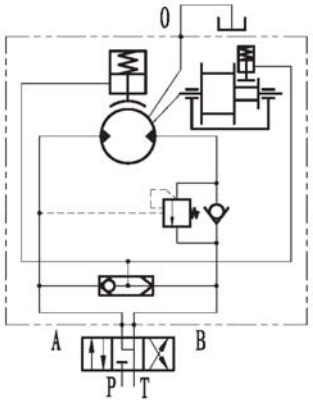




主要技术性能参数 Main specification

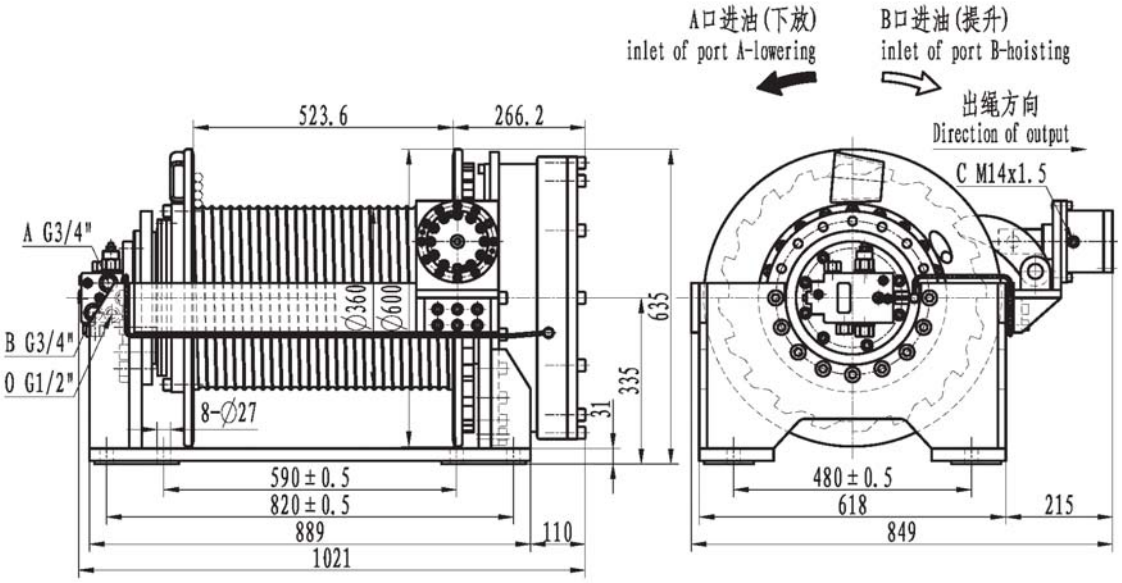
层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kg)	1700	1549	1423	1316
额定绳速 Rope speed(m/min)	20	21.9	23.8	25.8
容 绳 量 Drum Capacity(m)	24	51	79	110
总 排 量 Total Displacement(mL/r)	1666			
系统压力 System Rated Pressure(Bar)	150			
供油流量 Pump Supply Oil Flow(L/min)	36			
绳索直径 Rope Diameter(mm)	16			
液压马达型号 Hydraulic Motor Model	IM52			
减速器型号 Gearbox Model(Ratio)	XC33(i=32.1)			
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)	13000			

液压原理图
Hydraulic principle diagram



备注: 1.本绞车可用于载人等重要场合;
2.总排量为卷筒每转一转的供油量;
3.供油流量是泵的理论流量，即在考虑系统容积效率为0.85的情况下计算所得;
4.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。

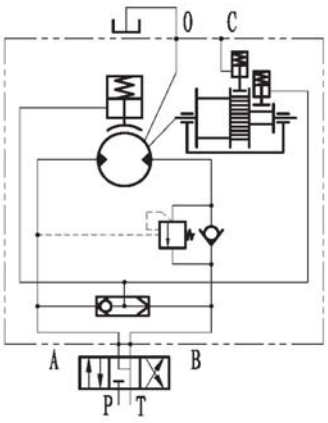
Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical capacity of rope.The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand.



三要技术性能参数 Main specification

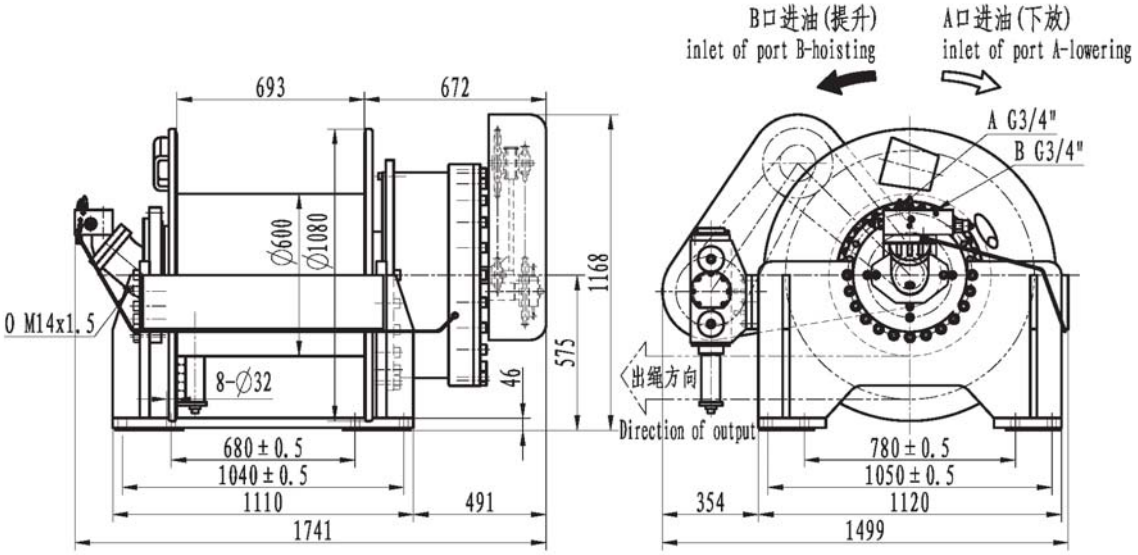
层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kN)	50	46	42	39
额定绳速 Rope speed(m/min)	42	46	50	54
容 绳 量 Drum Capacity(m)	33	69	108	150
总 排 量 Total Displacement(mL/r)	4199.1			
系统压力 System Rated Pressure(Bar)	200			
供油流量 Pump Supply Oil Flow(L/min)	162			
绳索直径 Rope Diameter(mm)	18			
液压马达型号 Hydraulic Motor Model	IM87			
减速器型号 Gearbox Model(Ratio)	IGC26(i=48.1)			
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)	23500			

液压原理图
Hydraulic principle diagram



备注: 1.本绞车可用于载人等重要场合;
2.总排量为卷筒每转一转的供油量;
3.供油流量是泵的理论流量，即在考虑系统容积效率为0.85的情况下计算所得;
4.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。

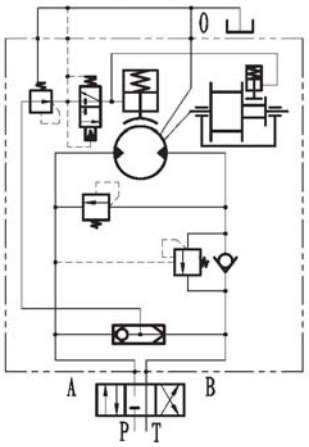
Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical capacity of rope.The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand.



主要技术性能参数 Main specification

层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kN)	50	46	42	39
额定绳速 Rope speed(m/min)	42	46	50	54
容 绳 量 Drum Capacity(m)	33	69	108	150
总 排 量 Total Displacement(mL/r)	23552			
系统压力 System Rated Pressure(Bar)	140			
供油流量 Pump Supply Oil Flow(L/min)	253			
绳索直径 Rope Diameter(mm)	32			
液压马达型号 Hydraulic Motor Model	A2FE160/6.1WVZL10			
减速器型号 Gearbox Model(Ratio)	IGC110W3(i=147.2)			
马达制动扭矩 Static brake torque of motor(N·m)	800			
卷筒制动扭矩 Static brake torque of drum(N·m)	155000			

液压原理图
Hydraulic principle diagram



备注: 1.本绞车可用于载人等重要场合;
2.总排量为卷筒每转一转的供油量;
3.供油流量是泵的理论流量，即在考虑系统容积效率为0.85的情况下计算所得;
4.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。

Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical capacity of rope.The practical available capacity of rope should subtract the retained 3 circle of wire in case of rope head is out of hand.

IYJ 系列液压绞车

1、概述

IYJ 系列液压绞车采用了本公司专利技术，由带单向平衡阀及控制制动器的高压梭阀组成的各种集成阀块、液压马达、制动器、行星减速机、卷筒、机架以及离合器等部件组成，用户只需配备泵站和换向阀即可。由于绞车自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性。除此，它还具有起动和工作时效率高、功率大、能耗少、噪音低、外形美观、尺寸紧凑、经济性好等特点，该产品可广泛用于建筑工程、石油、煤矿、机械、地质钻探、船舶甲板机械等设备中，产品不但已畅销全国，并出口到中东、东南亚、印度、韩国、俄罗斯、澳大利亚、美国、荷兰等国家和地区。

2、型号说明

IYJ *-*-*-*-Z P G D X S

- S：带棘轮棘爪机构，无此字母表示不带
- X：带手插式制动销，无此字母表示不带
- D：带闸带式制动器，无此字母表示不带
- G：由高速马达驱动，无此字母表示由低速大扭矩马达驱动
- P：带平衡阀，无此字母表示不带
- Z：带多片盘式制动器，无此字母表示不带
- *：钢丝绳直径(mm)
- *：容绳量(mm)
- *：第一层额定拉力(kN)
- *：行星减速机各级齿轮的模数
- IYJ：意宁牌液压绞车

3、型号举例

IYJ334-75-88-22-ZPG 表示行星减速器一级、二级、三级齿轮模数依次为 3、3、4 的三级行星减速器驱动，绞车第一层额定拉力为 75KN，容绳量为 88m，钢丝绳直径为 22mm，带多片盘式制动器及单向平衡阀，用高速马达驱动的液压绞车。

4、参数说明

a. 总排量是指卷筒每转所需供给的理论供油量(ml/r)。

b. 供油流量是指泵的理论供油流量。计算中应考虑系统容积效率 (L/min)。

c. 容绳量为绞车的理论容绳量(m)，实际允许的有效容绳量应考虑卷筒最少保留 3 圈钢丝绳，以防绳头脱出。

d. 工作压差为绞车工作时液压马达进出油口的压力差(MPa)。

e. 本系列绞车可带压绳机构、最后三圈钢丝绳防脱绳报警装置、排绳器、测速轴以及离合器(均为选项，用户可根据实际情况订合同时具体注明)。

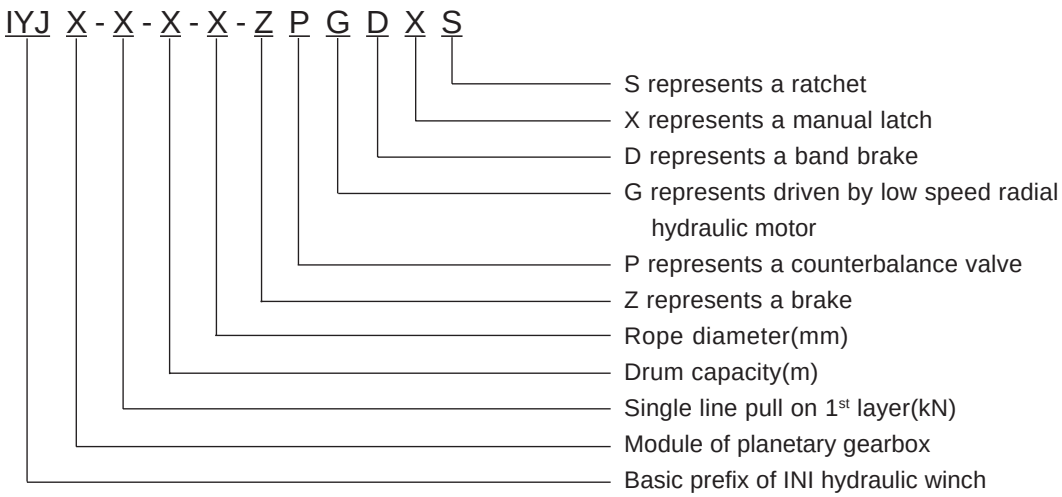
5、本公司有末级带离合器的绞车系列，详见样本中 IYJ---L 系列自由下放液压绞车，还有 IYJ---C 系列船用系泊绞车、ISYJ 系列车用绞车、IYJ-N 系列内藏式绞车等等。

IYJ Hydraulic Winch Series

1. Brief Introduction

The IYJ hydraulic winch series use the patent technique of our company and consist of a variety of valve blocks with function of braking and single counterbalance valve, high speed hydraulic motor, Z type brake, KC type or GC type planetary gearbox, drum, frame and clutch. The user only needs to provide a hydraulic power pack and directional valve. Due to the winches fitted with diversified valve block, it not only simplified the hydraulic system, but also improved the reliability of the winches. In addition, the winches feature a high efficiency and power, low noise and energy consumption, and have a compact figure and good economic value. Therefore, the series have been widely applied to construction, petroleum, mining, geological drilling, ship and deck machinery. IYJ series hydraulic winches have been well sold in China, and also have been exported to the Middle-east, south-east Asia, India, Korea, Russia, Australia, US, Netherlands and so on.

2. Model Options



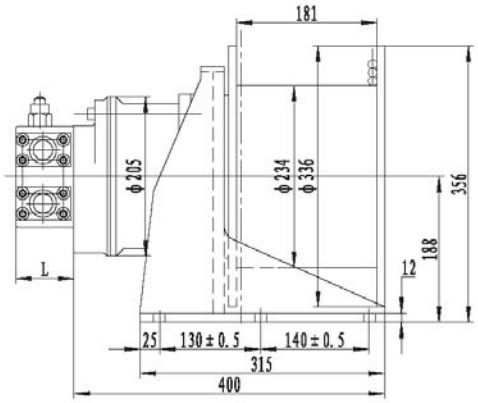
3. Options Example

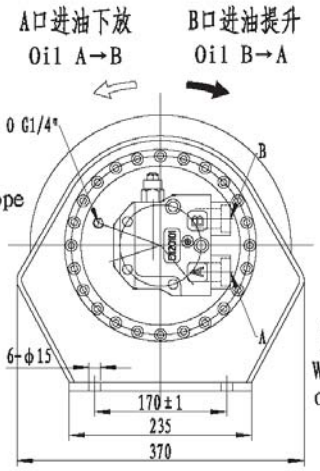
IYJ334-75-88-22-ZPG represents that the hydraulic winch adopts a three stage planetary gearbox, and that the modules of the gearbox are 3,3 and 4 respectively. The rated single pull on 1st layer is 75kN, drum capacity is 88, rope diameter is 22 mm. the winch is fitted with brake, counterbalance valve, and is driven by a high speed axial hydraulic motor.

4. Parameter Description

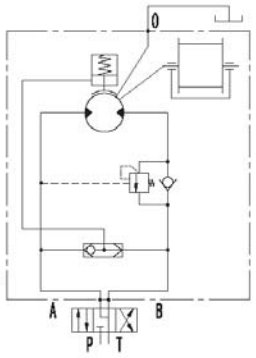
a. The total displacement represents the oil flow supply per revolution of the drum(mL/r).
b. The oil flow supply indicates the theoretical flow of the pump when the volumetric efficiency is considered to be 90-94%.
c. Maintain mandatory minimum of three wraps rope to be left on the drum at all times for safety.
d. The working pressure differential represents the pressure drop between port A and port B.
e. This winch series can be equipped with a rope roller, alarm system for the last three winding ropes, rope-guider, output shaft for rotation speed measurement, these items are optional. More options are available please contact the sales department.

5. There are other winch series available, such as IYJ-L free fall hydraulic winch series, IYJ-C hydraulic mooring winch series, ISYJ hydraulic winch series for truck, INYJ internal hydraulic winch series and so on, please refer to other catalogs of our company or contact the sales department.





液压原理图
Hydraulic principle diagram



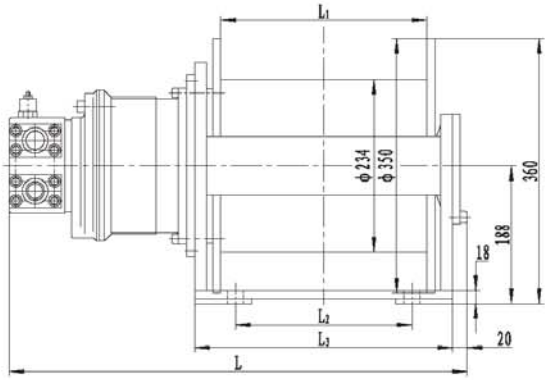
型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff.(MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer (层)	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model
IYJ2.5A-5-73-8-ZP	5	60	370	14	30	8	1 2 3 4	16 34 53 73	INM05-75D60101	C2.5 i=5
IYJ2.5A-10-61-10-ZP	10	30	755	15.5	30	10	1 2 3 4	13 28 44 61	INM05-150D60101	C2.5 i=5
IYJ2.5A-15-40-11-ZP	15	48	1057	13.5	70	11	1 2 3	12 25 40	INM05-150120101	C2.5 i=7
IYJ2.5A-17.5-40-11-ZP	17.5	38	1337	13	70	11	1 2 3	12 25 40	INM05-200D120101	C2.5 i=7
IYJ2.5A-20-40-11-ZP	20	38	1337	14.7	70	11	1 2 3	12 25 40	INM05-200D120101	C2.5 i=7
IYJ2.5A-25-37-12-ZP	25	38	1337	18	70	12	1 2 3	11 24 37	INM05-200D120101P	C2.5 i=7

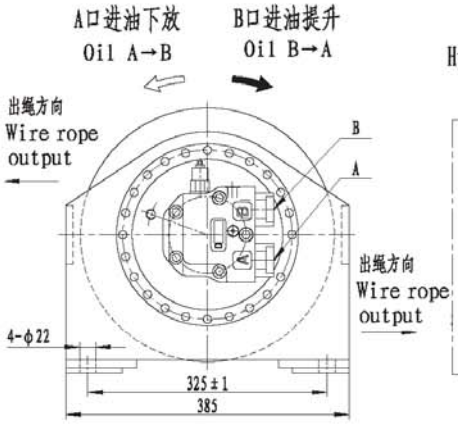
注: 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

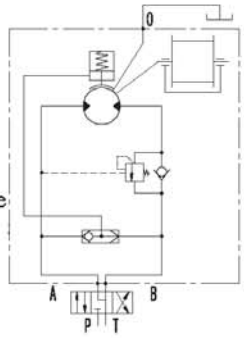
配流器选型 Distributors Model

供油流量(L/min) Supply oil flow	型 号 Model	A	B	L
0-40	D60101	M22x1.5	M22x1.5	65
40-90	D120101	φ35	φ35	75





液压原理图
Hydraulic principle diagram



基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ2.5-5-93-10-ZP	5	60	370	13	32	10	1	21	INM05-75D60101	C2.5A i=5	130
								2	44			
								3	69			
								4	93			
	IYJ2.5-10-93-10-ZP	10	60	645	15	56	10	1	21	INM05-130D120101	C2.5A i=5	130
								2	44			
								3	69			
								4	93			
2	IYJ2.5-12-85-12-ZP	12	56	830	14	67	12	1	25	INM05-170D120101	C2.5A i=5	160
								2	54			
								3	85			
	IYJ2.5-15-85-12-ZP	15	53	955	16	70	12	1	25	INM05-200D120101	C2.5A i=5	160
								2	54			
								3	85			
3	IYJ2.5-18-109-13-ZP	18	48	1057	16	70	13	1	32	INM05-150D120101	C2.5 i=7	200
								2	69			
								3	109			
	IYJ2.5-20-102-14-ZP	20	39	1337	14	70	14	1	30	INM05-200D120101	C2.5 i=7	200
								2	64			
								3	102			
4	IYJ2.5-22-130-14-ZP	22	39	1337	15.6	70	14	1	38	INM05-200D120101	C2.5 i=7	200
								2	82			
								3	130			
	IYJ2.5-24-130-14-ZP	25	39	1337	18	70	14	1	38	INM05-200D120101	C2.5 i=7	200
								2	82			
								3	130			

注：本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

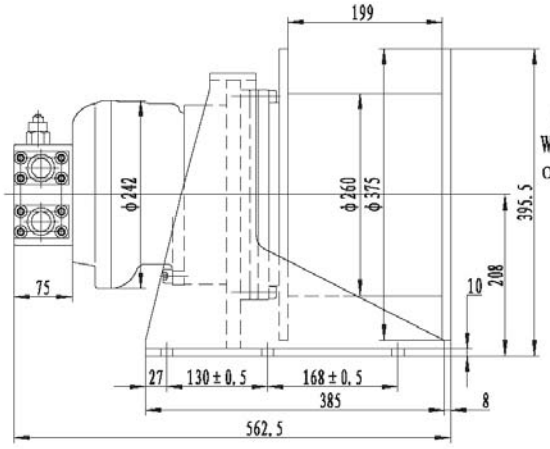
Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

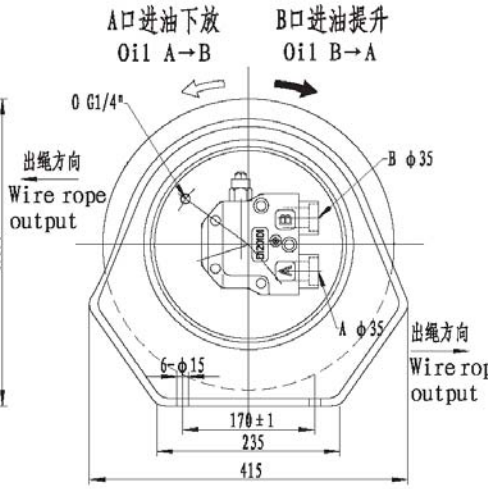
外形尺寸 Profile Dimension

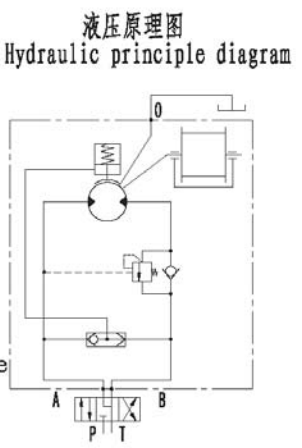
	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	280	240	350	622
2	402	362	472	744
3	552	512	622	913
4	700	660	770	1100

配流器选型 Distributors Model

供油流量(L/min) Supply oil flow	型 号 Model	A	B	L
0-40	D60101	M22x1.5	M22x1.5	65
40-90	D120101	φ35	φ35	75







型 号 Model	第一层 The 1st layer		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
	拉力(KN) Pull	绳速(m/min) Rope speed								
IYJ3A-20-62-12-ZP	20	45	1407	14.5	80	12	1	13	INM1-200D120101	C3 i=7
							2	28		
							3	45		
							4	62		
IYJ3A-25-58-13-ZP	25	38	1701	15	80	13	1	12	INM1-250D120101	C3 i=7
							2	26		
							3	42		
							4	58		
IYJ3A-30-58-13-ZP	30	32	2030	15.2	80	13	1	12	INM1-300D120101	C3 i=7
							2	26		
							3	42		
							4	58		
IYJ3A-35-55-14-ZP	35	30	2198	16.4	80	14	1	11	INM1-320D120101	C3 i=7
							2	24		
							3	39		
							4	55		

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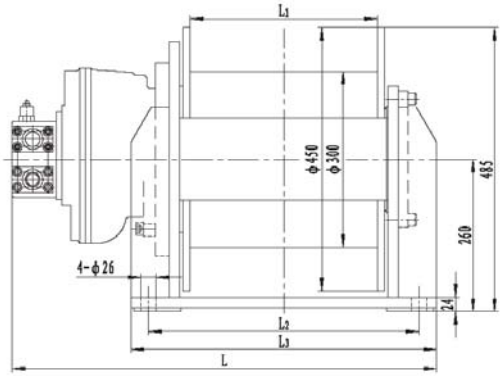
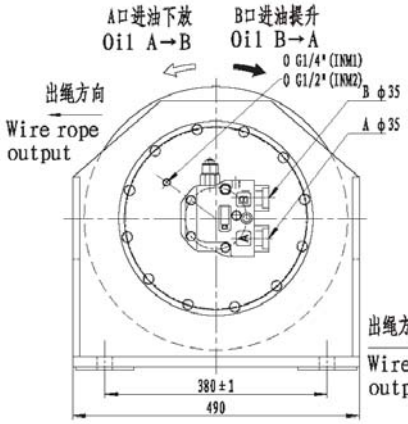
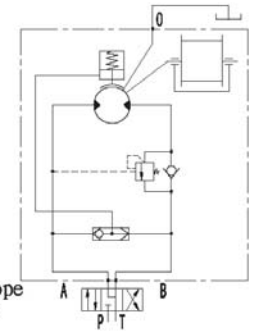




液压原理图
Hydraulic principle diagram



基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ3-20-76-14-ZP	20	43	1701	13.7	80	14	1	17	INM1-250D120101	C3 i=7	170
								2	36			
								3	57			
								4	76			
	IYJ3-24-76-14-ZP	24	37	2030	13.8	80	14	1	17	INM1-300D120101	C3 i=7	170
								2	36			
								3	57			
								4	76			
2	IYJ3-25-99-14-ZP	25	37	2030	14.5	80	14	1	22	INM1-300D120101	C3 i=7	230
								2	47			
								3	73			
								4	99			
	IYJ3-30-99-14-ZP	30	34	2198	16.8	80	14	1	22	INM2-320D120101	C3 i=7	230
								2	47			
								3	73			
								4	99			
3	IYJ3-32-92-16-ZP	32	55	2711.5	14.0	160	16	1	27	INM2-500D240101	C3D i=5.5	300
								2	58			
								3	92			
	IYJ3-35-92-16-ZP	35	48	3107.5	13.2	160	16	1	27	INM2-600D240101	C3D i=5.5	300
								2	58			
								3	92			
4	IYJ3-40-120-16-ZP	40	48	3107.5	15.0	160	16	1	36	INM2-600D240101	C3D i=5.5	370
								2	76			
								3	120			
	IYJ3-42-108-18-ZP	42	44	3426.5	14.4	160	18	1	32	INM2-630D240101	C3D i=5.5	370
								2	68			
								3	108			

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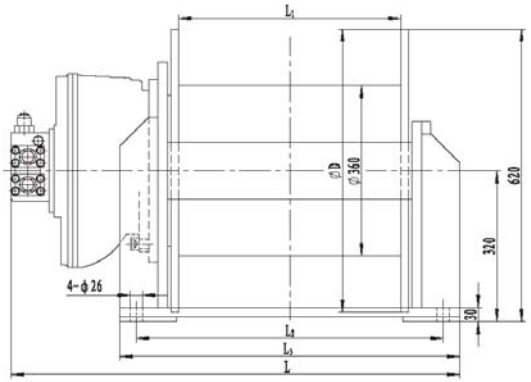
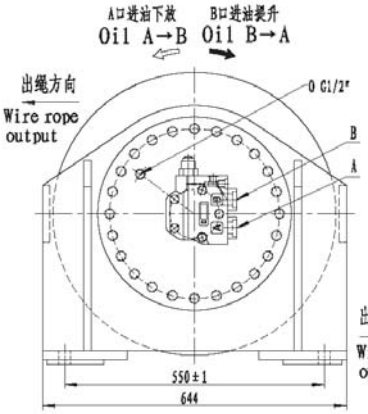
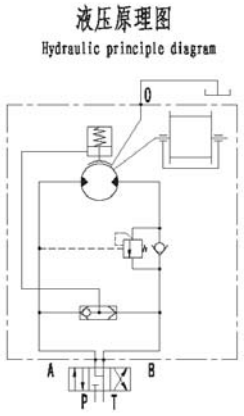
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	245	387	447	625
2	320	462	522	750
3	450	592	652	880
4	587	729	789	1017







基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ4-40-89-16-ZP	40	60	3450	16.1	195	16	1	27	INM3-700D480101	C4A i=5	250
								2	57			
								3	89			
	IYJ4-45-89-16-ZP	45	36	4361	14.4	148	16	1	27	INM2-630D240101	C4 i=7	210
								2	57			
								3	89			
2	IYJ4-50-92-18-ZP	50	36	4361	16	148	18	1	28	INM2-600D240101	C4 i=7	350
								2	59			
								3	92			
	IYJ4-54-92-20-ZP	54	36	5428.5	14.0	182	20	1	28	INM3-1000D480101	C4D i=5.5	390
								2	59			
								3	92			
3	IYJ4-60-111-20-ZP	60	32	6138	13.7	183	20	1	33	INM4-1100D480101	C4D i=5.5	480
								2	71			
								3	111			
	IYJ4-62-111-20-ZP	62	32	5580	15.6	167	20	1	33	INM4-1100D480101	C4A i=5	480
								2	71			
								3	111			
4	IYJ4-72-118-22-ZP	72	28	7238	14.1	188	22	1	35	INM4-1300D480101	C4D i=5.5	560
								2	74			
								3	118			
	IYJ4-80-106-24-ZP	80	28	7238	15.9	188	24	1	32	INM4-1300480101	C4D i=5.5	560
								2	67			
								3	106			

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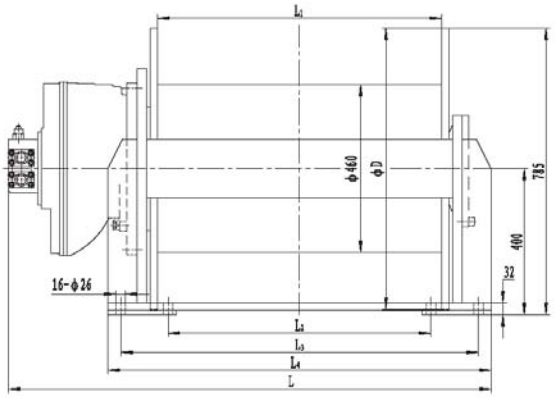
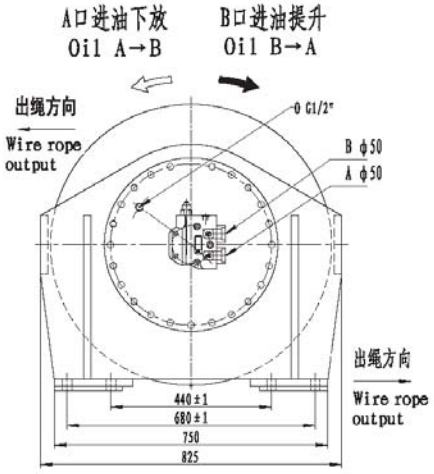
外形尺寸 Profile Dimension

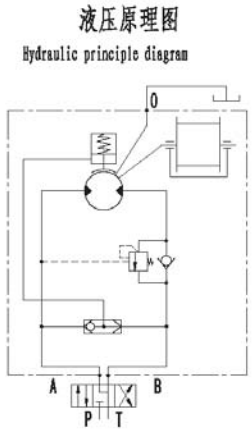
	L_1 (mm)	L_2 (mm)	L_3 (mm)	L (mm)	D (mm)
1	372	552	622	833	520
2	470	650	720	931	540
3	566	746	816	1046	560
4	650	830	900	1130	600

配流器选型 Distributors Model

供油流量(L/min) Supply oil flow	型 号Model	A	B
90-150	D240101	ϕ35	ϕ35
150-260	D480101	ϕ50	ϕ50







基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ5-70-136-22-ZP	70	32	9212	13.6	216	22	1	30	INM4-1300480101	C5 i=7	800
								2	64			
								3	101			
	IYJ5-80-110-24-ZP	80	32	9212	15.8	216	24	1	28	INM4-1300D480101	C5 i=7	800
								2	59			
								3	94			
2	IYJ5-90-158-24-ZP	90	33	11348	14.4	256	24	1	35	INM5-1600D480101	C5 i=7	1050
								2	74			
								3	116			
	IYJ5-95-148-26-ZP	95	34	11038.5	15.6	256	26	1	32	INM5-2000D480101	C5D i=5.5	1050
								2	69			
								3	109			
3	IYJ5-100-177-26-ZP	100	34	11038.5	16.4	260	26	1	39	INM5-2000D480101	C5D i=5.5	1100
								2	82			
								3	130			
	IYJ5-110-177-26-ZP	110	32	11698.5	17	260	26	1	39	INM6-2100D480101	C5D i=5.5	1100
								2	82			
								3	130			
4	IYJ5-120-142-28-ZP	120	27	13821.5	15.7	260	28	1	42	INM6-2500D480101	C5D i=5.5	1300
								2	90			
								3	142			
	IYJ5-130-142-28-ZP	130	27	13821.5	17.0	260	28	1	42	INM6-2500D480101	C5D i=5.5	1300
								2	90			
								3	142			

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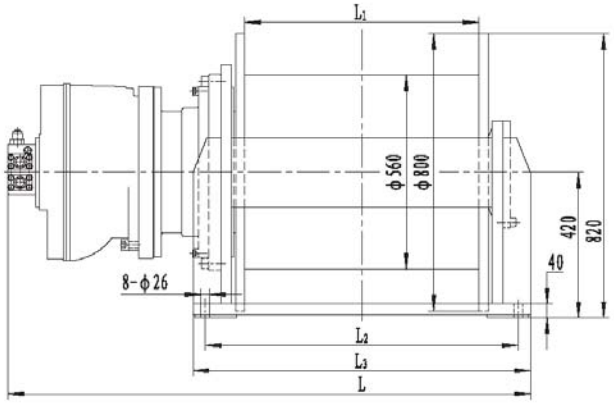
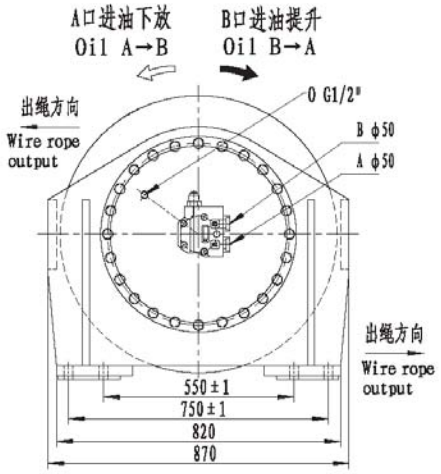
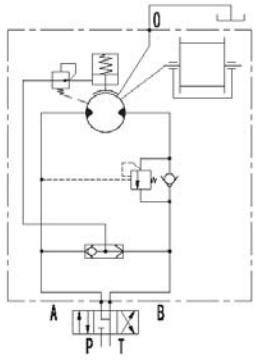
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L (mm)	D (mm)
1	450	390	650	720	992	725
2	560	500	760	830	1193	750
3	670	610	870	940	1212	770
4	780	720	980	1050	1413	770





液压原理图
Hydraulic principle diagram



基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ6-100-127-26-ZP	100	34	14049	15.6	280	26	1 2 3	38 81 127	INM5-2000D480101	C6 i=7	1200
	IYJ6-110-115-28-ZP	110	34	14049	17	280	28	1 2 3	35 74 115	INM5-2000D480101	C6 i=7	1200
2	IYJ6-120-140-28-ZP	120	28	17591	15	280	28	1 2 3	44 93 140	INM6-2500D480101	C6 i=7	1450
	IYJ6-125-135-30-ZP	125	28	17591	15.7	280	30	1 2 3	41 86 135	INM6-2500D480101	C6 i=7	1450
3	IYJ6-130-163-30-ZP	130	28	17591	16.4	280	30	1 2 3	49 103 163	INM6-2500D480101	C6 i=7	1600
	IYJ6-140-163-30-ZP	140	28	17591	17.6	280	30	1 2 3	49 103 163	INM6-2500D480101	C6 i=7	1600
4	IYJ6-145-198-30-ZP	145	29	16725.5	18.9	280	30	1 2 3	61 129 204	INM6-3000D480101	C6D i=5.5	1780
	IYJ6-150-198-30-ZP	150	29	16725.5	19.6	280	30	1 2 3	61 129 204	INM6-3000D480101	C6D i=5.5	1780

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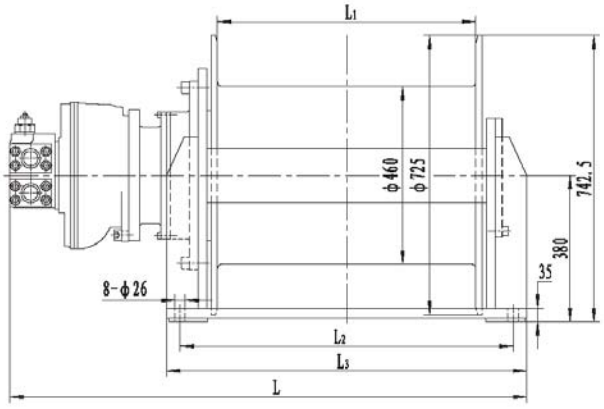
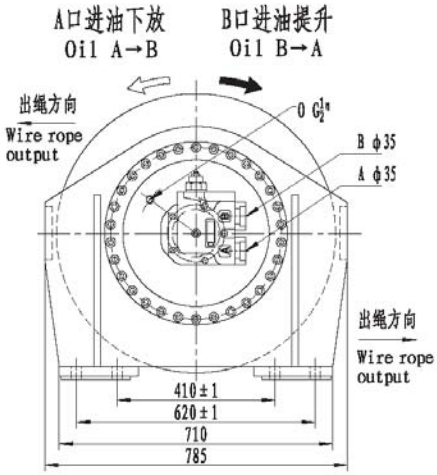
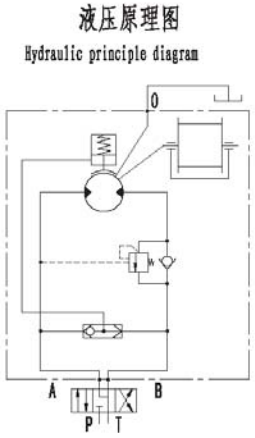
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	550	776	846	1381
2	678	904	974	1509
3	800	1026	1096	1631
4	1000	1226	1296	1831







基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ45-100-I11-26-ZP	100	19	13804	13.5	180	26	1	33	INM2-500D240101	C45 i=28	960
								2	70			
								3	111			
	IYJ45-110-I11-26-ZP	110	19	13804	14.8	180	26	1	33	INM2-500D240101	C45 i=28	1050
								2	70			
								3	111			
2	IYJ45-120-I22-28-ZP	120	19	13804	16.3	180	28	1	36	INM2-500D240101	C45 i=28	1150
								2	77			
								3	122			
	IYJ45-130-I22-28-ZP	130	16	16660	14.6	180	28	1	36	INM3-600D240101	C45 i=28	1120
								2	77			
								3	122			
3	IYJ45-140-I38-30-ZP	140	16	16660	15.8	180	30	1	41	INM3-600D240101	C45 i=28	1250
								2	87			
								3	138			
	IYJ45-145-I38-30-ZP	145	16	16660	16.3	180	30	1	41	INM3-600D240101	C45 i=28	1250
								2	87			
								3	138			
4	IYJ45-150-I63-32-ZP	150	14	19320	14.6	180	32	1	48	INM3-700D240101	C45 i=28	1480
								2	102			
								3	163			
	IYJ45-160-I63-32-ZP	160	14	19320	15.6	180	32	1	48	INM3-700D240101	C45 i=28	1480
								2	102			
								3	163			

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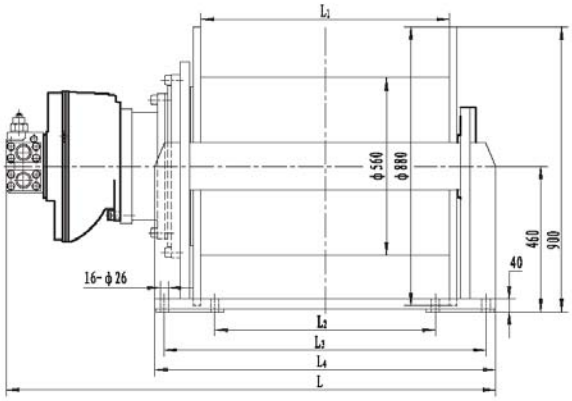
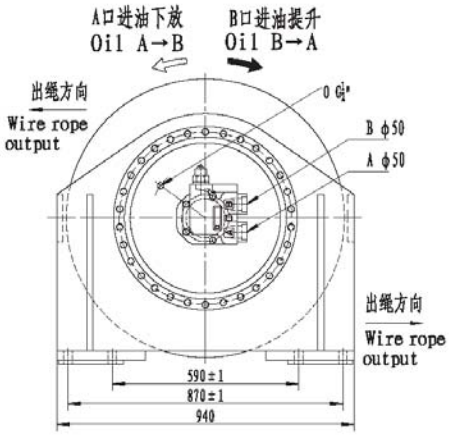
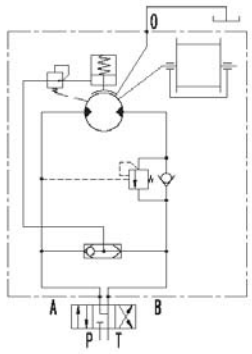
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	570	766	836	1262
2	671	865	935	1342
3	800	994	1064	1471
4	1000	1194	1264	1671





液压原理图
Hydraulic principle diagram



基型	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ56-120-160-30-ZP	120	27	18080	15	280	30	1	48	INM4-900D480101P	C56 i=20	1450
								2	102			
								3	160			
	IYJ56-130-160-30-ZP	130	27	18080	16.2	280	30	1	48	INM4-900D480101P	C56 i=20	1450
								2	102			
								3	160			
2	IYJ56-140-183-30-ZP	140	24	20440	15.5	280	30	1	55	INM4-1000D480101P	C56 i=20	1450
								2	116			
								3	183			
	IYJ56-150-183-30-ZP	150	24	20440	16.6	280	30	1	55	INM4-1000D480101P	C56 i=20	1450
								2	116			
								3	183			
3	IYJ56-160-188-32-ZP	160	21	23700	15.2	280	32	1	56	INM5-1200D480101P	C56 i=20	1650
								2	119			
								3	188			
	IYJ56-170-188-32-ZP	170	21	23700	16.1	280	32	1	56	INM5-1200D480101P	C56 i=20	1650
								2	119			
								3	188			
4	IYJ56-180-196-34-ZP	180	18	26800	15.3	280	34	1	59	INM5-1300D480101P	C56 i=20	1750
								2	124			
								3	196			
	IYJ56-200-187-36-ZP	200	18	26800	17	280	36	1	56	INM5-1300D480101P	C56 i=20	1750
								2	118			
								3	187			

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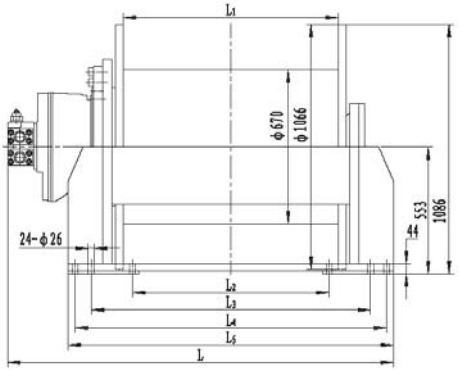
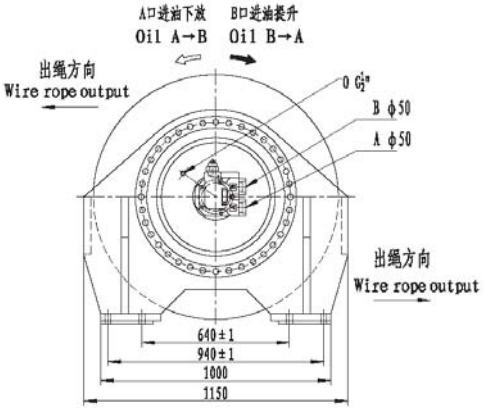
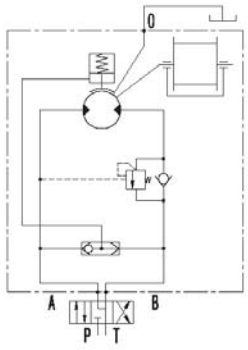
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L (mm)
1	786	698	1018	1078	1547
2	900	812	1132	1192	1661
3	1000	912	1232	1292	1761
4	1100	1012	1332	1392	1805





液压原理图
Hydraulic principle diagram



基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ67-150-211-32-ZP	150	20	29092	13.9	280	32	1	64	INM5-1000D480101	C67 i=28	2000
								2	134			
								3	211			
	IYJ67-160-211-32-ZP	160	20	29092	14.8	280	32	1	64	INM5-1000D480101	C67 i=28	2000
								2	134			
								3	211			
2	IYJ67-180-224-36-ZP	180	18	33180	14.7	280	36	1	67	INM5-1200D480101	C67 i=28	2220
								2	142			
								3	224			
	IYJ67-200-224-36-ZP	200	18	33180	16.3	280	36	1	67	INM5-1200D480101	C67 i=20	2220
								2	142			
								3	224			
3	IYJ67-250-232-40-ZP	250	13	45752	14.8	280	40	1	69	INM5-1600D480101	C67 i=28	2390
								2	147			
								3	232			
	IYJ67-280-232-40-ZP	280	13	45750	16.6	280	40	1	69	INM5-1600D480101	C67 i=28	2390
								2	147			
								3	232			
	IYJ67-300-214-44-ZP	300	12	50848	16.1	280	44	1	63	INM5-1800D480101	C67 i=28	2450
								2	135			
								3	214			
	IYJ67-320-214-44-ZP	320	12	50848	17.2	280	44	1	63	INM5-1800D480101	C67 i=28	2450
								2	135			
								3	214			

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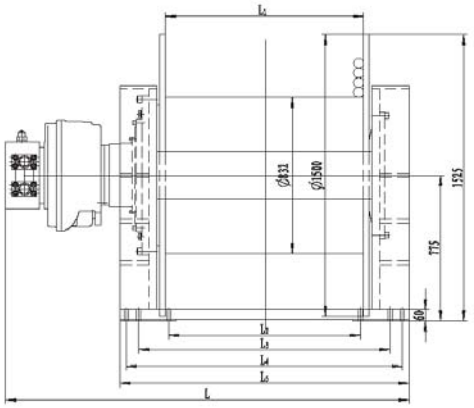
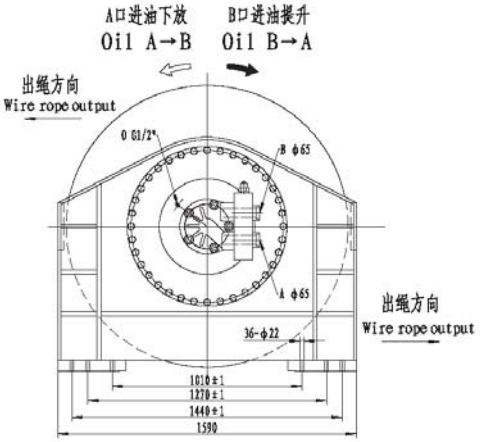
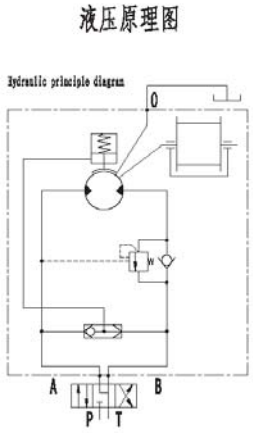
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L (mm)
1	936	855	1215	1355	1415	1679
2	1100	1019	1379	1519	1579	1843
3	1250	1169	1529	1669	1729	1993







基型 Basic model	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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	重量 Weight (Kg)
1	IYJ79-300-253-46-ZP	300	16.8	70728	14	480	46	1	55	INM7-2500D720101	C79 i=28	3500
								2	115			
								3	181			
								4	253			
	IYJ79-400-253-46-ZP	400	16.8	83580	16	480	46	1	55	INM7-3000D720101	C79 i=28	3500
								2	115			
								3	181			
								4	253			
2	IYJ79-500-261-52-ZP	500	10	120344	14	480	52	1	55	INM7-4300D720101	C67 i=28	4000
								2	117			
								3	186			
								4	261			
	IYJ79-550-261-52-ZP	550	10	120344	15.5	480	52	1	55	INM7-4300D720101	C67 i=28	4000
								2	117			
								3	186			
								4	261			

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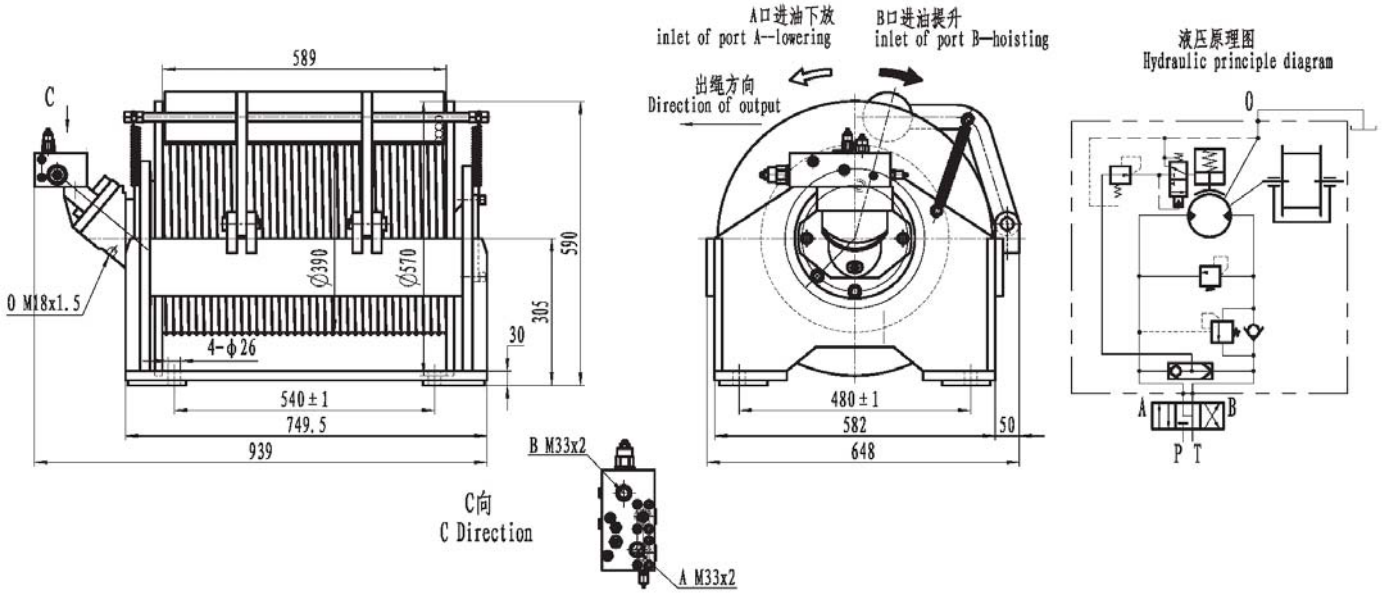
外形尺寸 Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L (mm)
1	895	860	1190	1320	1390	1897
2	1055	1020	1350	1480	1550	2057



型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (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)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ23-20-164-14-ZPG	20	100	1486.7	20.8	130	14	1 2 3	46 103 164	A2FE56	IGC17W2 i=26.5	920
IYJ23-25-164-14-ZPG	25	100	1486.7	26.1	130	14	1 2 3	46 103 164	A2FE56	IGC17W2 i=26.5	920
IYJ23-30-144-16-ZPG	30	74	2103.8	22.2	130	16	1 2 3	39 90 144	A2FE56	IGC17W2 i=37.2	920
IYJ23-35-144-16-ZPG	35	74	2103.8	26.6	130	16	1 2 3	39 90 144	A2FE56	IGC17W2 i=37.5	920
IYJ23-40-144-16-ZPG	40	68	2362.5	27.0	140	16	1 2 3	39 90 144	A2FE63	IGC17W2 i=37.5	920

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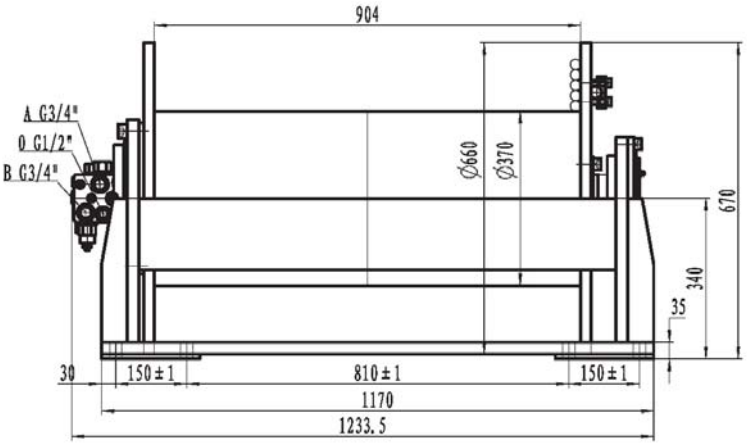
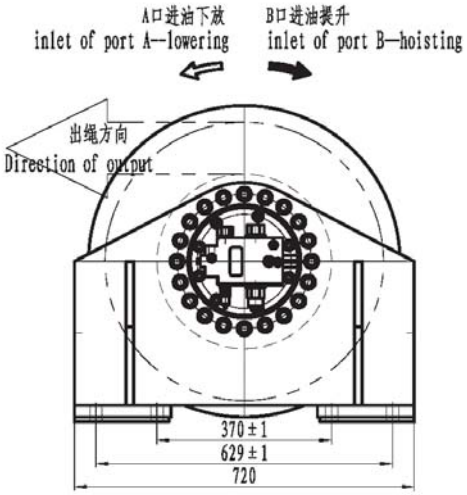
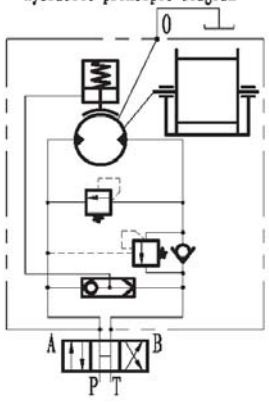




型 号 Model	第一层 The 1st layer 拉 力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ333-70-168-20-ZPG	70	25.5	6216.9	17.1	142	20	1 2 3	50 106 168	IM69	IGC24W3 i=90.1	700
IYJ333-80-168-20-ZPG	80	22.5	7027.8	17.1	142	20	1 2 3	50 106 168	IM78	IGC24W3 i=90.1	700
IYJ333-90-168-22-ZPG	90	22.5	7027.8	19.3	142	22	1 2 3	50 106 168	IM78	IGC24W3 i=90.1	700
IYJ333-100-168-22-ZPG	100	20	7865.7	19.1	142	22	1 2 3	50 106 168	IM87	IGC24W3 i=90.1	700

液压原理图
Hydraulic principle diagram



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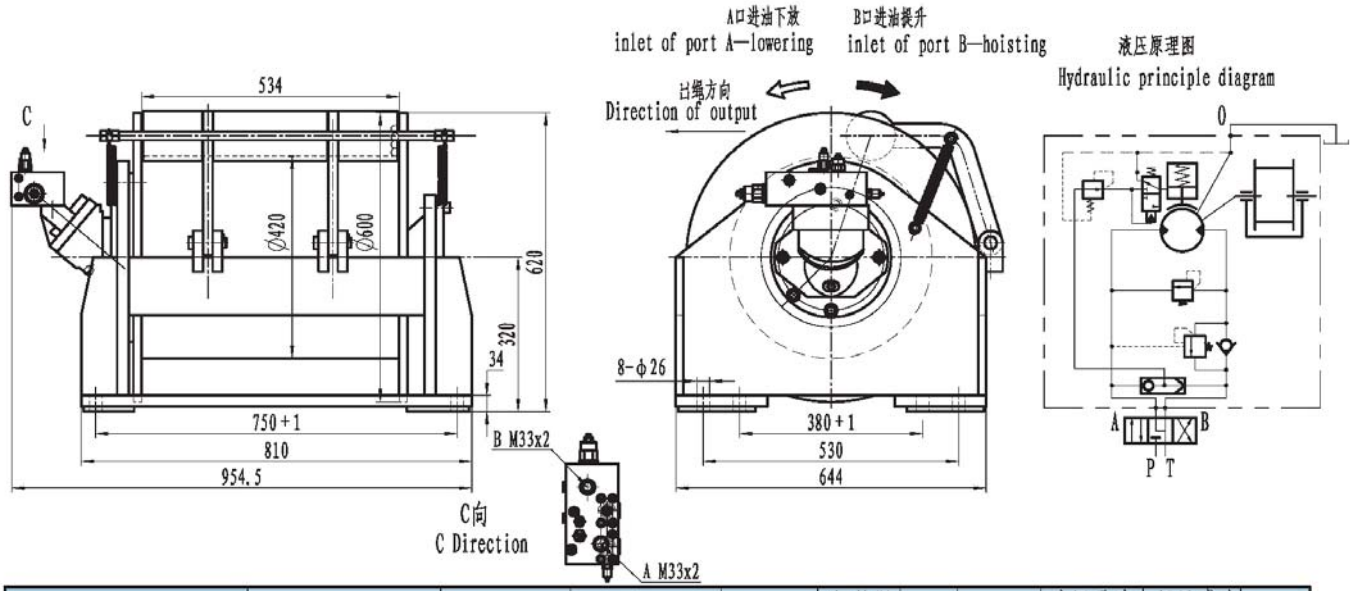

型 号 Model	第一层 The 1st layer		总排量 Total displacement	工作压差 Working pressure diff.	供油流量 Supply oil flow	钢丝绳直径 Diameter of rope	层数 Layer	容绳量 Capacity of rope	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight
	拉 力 Pull (KN)	绳 速 Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
IYJ344-60-178-18-ZPG	60	54	3807.5	27.1	160	18	1 2 3 4	37 81 129 178	A2FE56	IGC36W3 i=67.87	960
IYJ344-70-117-20-ZPG	70	47	4403.9	27.5	160	20	1 2 3	33 74 117	A2FE56	IGC36W3 i=78.50	960
IYJ344-80-117-20-ZPG	80	37	5559.5	25	160	20	1 2 3	33 74 117	A2FE56	IGC36W3 i=78.50	960
IYJ344-90-108-22-ZPG	90	38	5559.5	28.1	160	22	1 2 3	30 67 108	A2FE56	IGC36W3 i=99.10	960
IYJ344-100-100-24-ZPG	100	29	7281	24	160	24	1 2 3	28 62 100	A2FE56	IGC36W3 i=99.10	960
IYJ344-110-100-24-ZPG	110	29	7281	26.5	160	24	1 2 3	28 62 100	A2FE56	IGC36W3 i=99.10	960
IYJ344-120-100-24-ZPG	120	29	7281	28.6	160	24	1 2 3	28 62 100	A2FE56	IGC36w3 i=99.10	960

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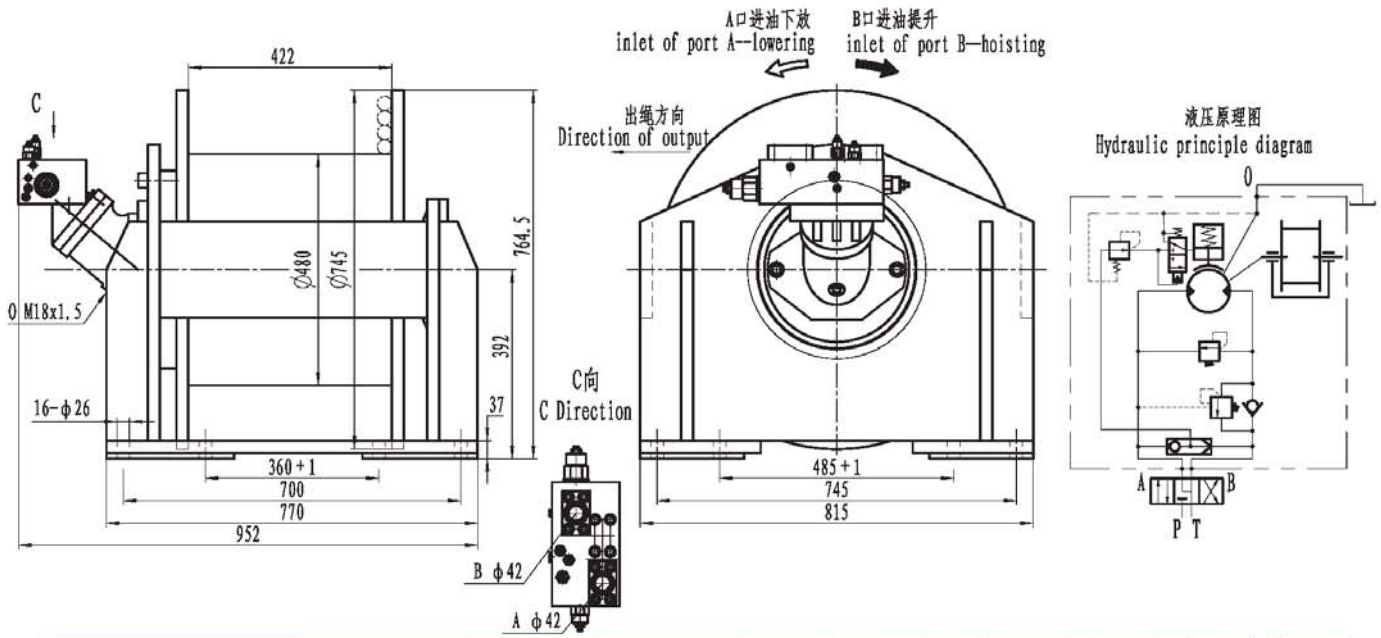

型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ34.54.5-100-115-26-ZPG	100	41	7638	25.4	210	26	1 2 3 4	22 51 82 115	A2FE80	IGC60W3 i=95	1300
IYJ34.54.5-110-115-26-ZPG	110	41	7638	27.9	210	26	1 2 3 4	22 51 82 115	A2FE80	IGC60W3 i=95	1300
IYJ34.54.5-120-115-26-ZPG	120	34	9181.7	25.4	210	26	1 2 3 4	22 51 82 115	A2FE80	IGC60W3 i=114.2	1300
IYJ34.54.5-130-108-28-ZPG	130	34	9181.7	27.6	210	28	1 2 3 4	21 47 77 108	A2FE80	IGC60W3 i=114.2	1300
IYJ34.54.5-140-108-28-ZPG	140	30	10725.4	25.4	210	28	1 2 3 4	21 47 77 108	A2FE80	IGC455 i=133.4	1300
IYJ34.54.5-150-108-28-ZPG	150	30	10725.4	27.2	210	28	1 2 3 4	21 47 77 108	A2FE80	IGC455 i=133.4	1300

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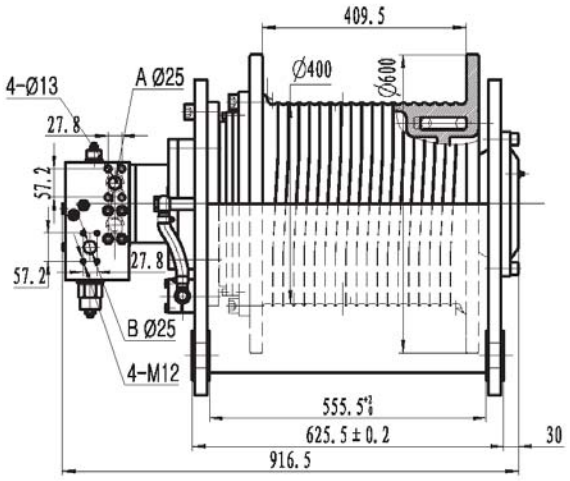
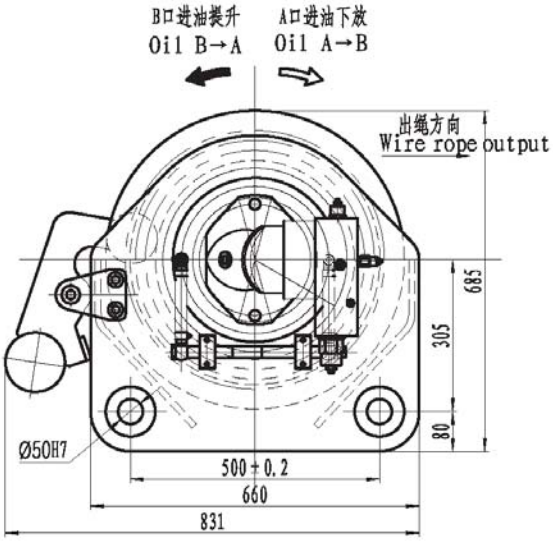




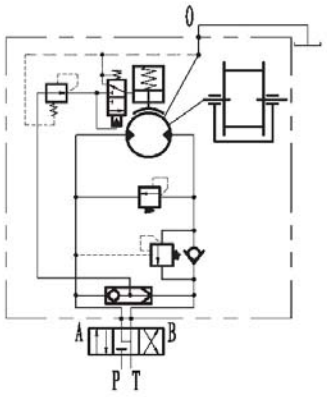
主要技术参数

Main Specification

型号	Model	IYJ455-102-82-20-ZPG		
第三层拉力	Pull on the 3rd layer(kN)	102		
第一层绳速	Speed on the 1st layer(m/min)	42		
总排量(ml/r)	Total displacement(ml/r)	6134.4		
工作压差	Work pressure diff.(MPa)	32		
供油流量	Oil flow supply (L/min)	220		
钢丝绳直径	Rope diameter (mm)	20		
层数	layer	1	2	3
容绳量	Wire rope capacity (m)	25	52	82
液压马达型号	Hydraulic motor	A2FE80/6.1WVZL10		
行星减速器型号	Gearbox model	IGC60W3 i=76.68		

液压原理图

Hydraulic principle diagram



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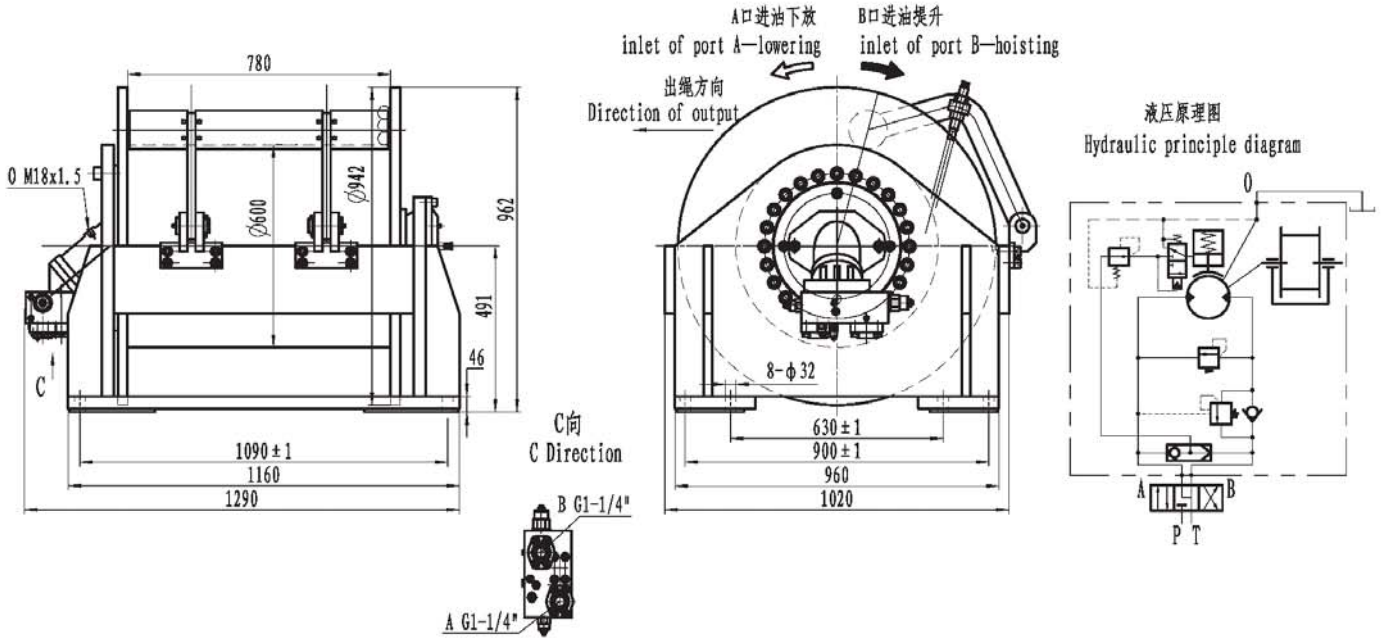

型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ35.55.5-150-256-26-ZPG	150	50	13425.5	26.9	363	26	1	55	A2FE160	IGC80W3 i=83.7	1700
							2	119			
							3	188			
							4	256			
IYJ35.55.5-160-241-28-ZPG	160	50	13425.5	28.7	363	28	1	51	A2FE160	IGC80W3 i=83.7	1700
							2	111			
							3	176			
							4	241			
IYJ35.55.5-170-228-30-ZPG	170	43	15799.4	26.0	363	30	1	48	A2FE160	IGC80W3 i=98.5	1700
							2	104			
							3	166			
							4	228			
IYJ35.55.5-180-216-32-ZPG	180	43	15799.4	27.6	363	32	1	45	A2FE160	IGC80W3 i=98.5	1700
							2	98			
							3	156			
							4	216			
IYJ35.55.5-200-200-34-ZPG	200	37	18205.4	26.7	363	34	1	42	A2FE160	IGC80W3 i=113.5	1700
							2	93			
							3	148			
							4	200			

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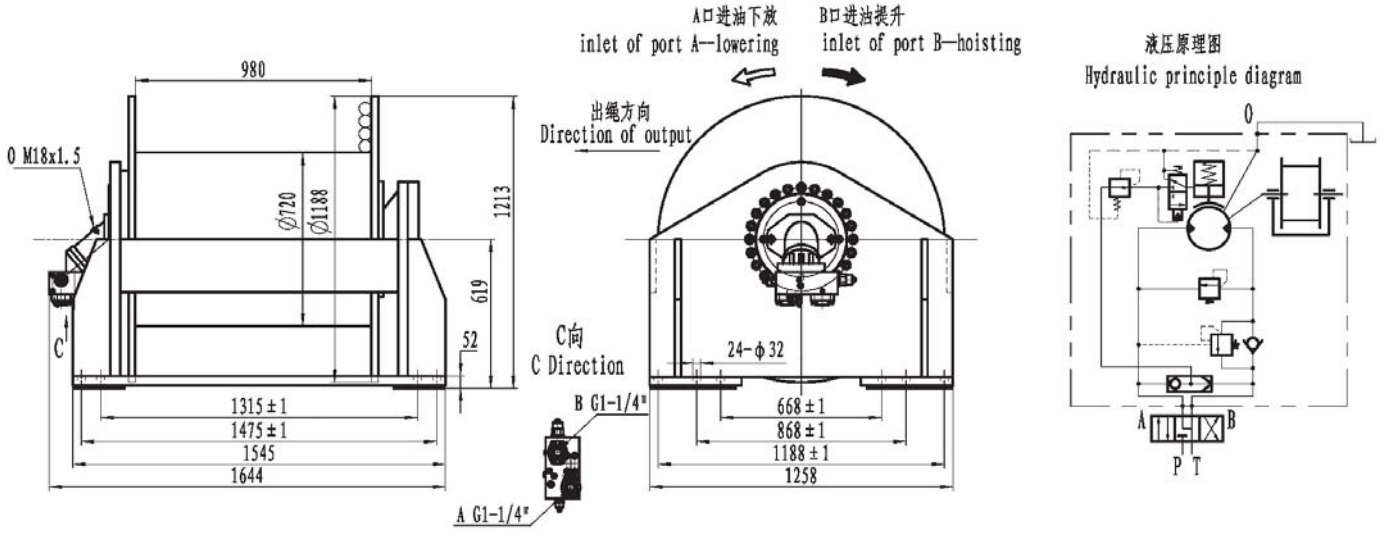
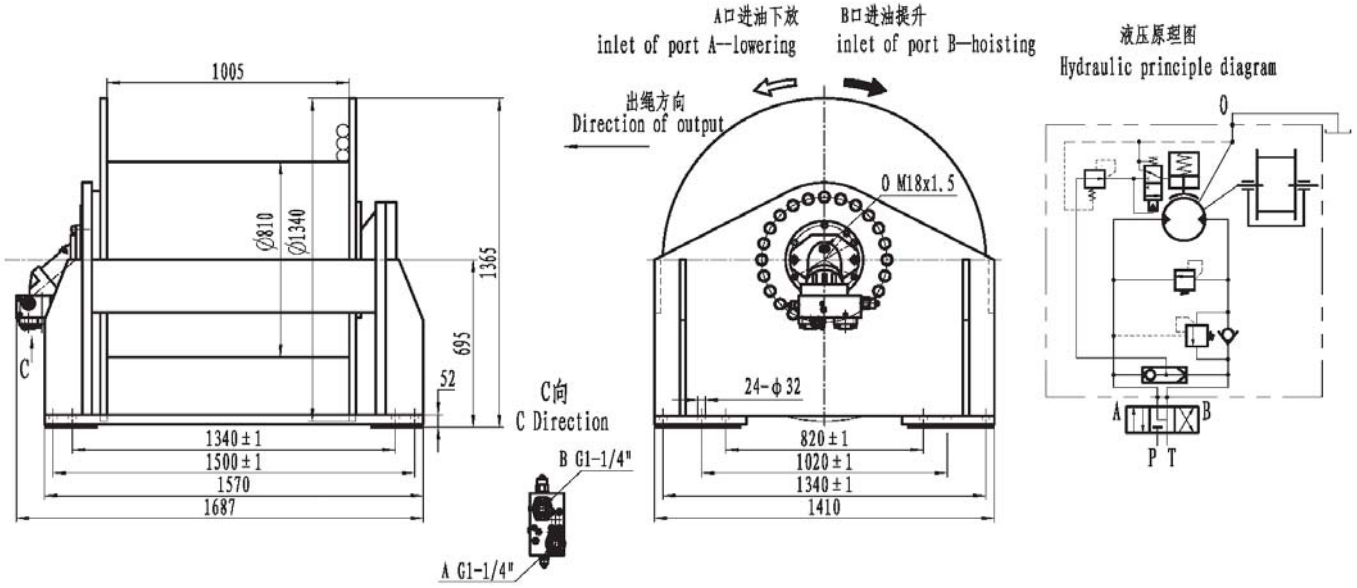


型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ477-200-300-34-ZPG	200	34	25952.7	22.7	400	34	1	65	A2FE125	IGC160W3 i=161.8	2600
							2	139			
							3	220			
							4	300			
IYJ477-250-280-36-ZPG	250	35	25952.7	28.4	400	36	1	61	A2FE125	IGC160W3 i=161.8	2600
							2	132			
							3	209			
							4	280			
IYJ477-300-270-38-ZPG	300	26	33812.3	26.3	400	38	1	58	A2FE125	IGC160W3 i=210.8	2600
							2	125			
							3	199			
							4	270			
IYJ477-320-260-40-ZPG	320	27	33812.3	27.6	400	40	1	55	A2FE160	IGC160W3 i=210.8	2600
							2	120			
							3	190			
							4	260			
IYJ477-350-250-42-ZPG	350	27	33812.3	30.8	400	42	1	52	A2FE160	IGC160W3 i=210.8	2600
							2	114			
							3	183			
							4	250			

注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

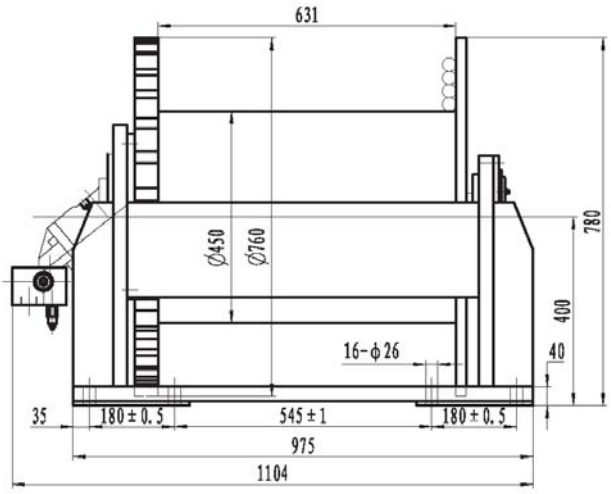


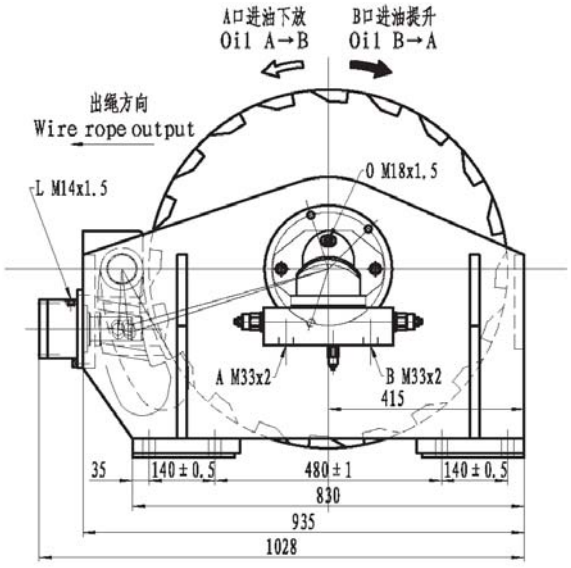
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳 速 Rope speed (m/min)	总排量 Total (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (kg)
IYJ488-350-199-44-ZPG	350	21.5	46997.2	24.8	400	44	1 2 3	58 125 199	A2FE160	IGC220W3 i=245.9	3200
IYJ488-400-192-46-ZPG	400	22	46997.2	28.1	400	46	1 2 3	55 120 192	A2FE160	IGC220W3 i=293.0	3200
IYJ488-450-185-48-ZPG	450	22	52740.0	28.1	450	48	1 2 3	53 116 185	A2FE180	IGC220W3 i=293.0	3200
IYJ488-480-178-50-ZPG	480	20	56340.0	28.1	450	50	1 2 3	51 111 178	A2FE180	IGC220W3 i=313.0	3200
IYJ488-500-178-50-ZPG	500	20	56340.0	29.3	450	50	1 2 3	51 111 178	A2FE180	IGC220W3 i=313.0	3200

注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

344-50-167-26-ZPGS

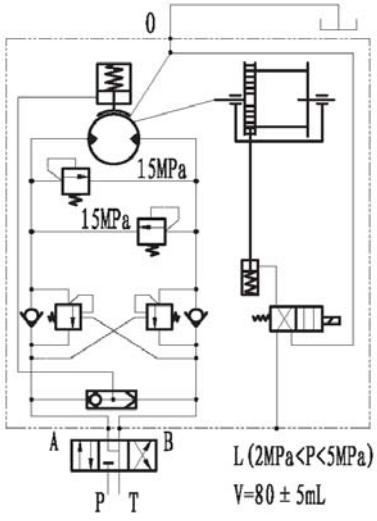




主要技术参数
Main Specification

型号	Model	IYJ344-50-167-26-ZPGS			
第四层拉力	Pull on the 4th layer(kN)	50			
支持拉力	Support pull(kN)	170			
平均绳速	Speed(m/min)	7.4			
总排量	Total displacement(ml/r)	9949.15			
工作压差	Work pressure diff.(MPa)	13			
供油流量	Oil flow supply(L/min)	48			
钢丝绳直径	Rope diameter (mm)	26			
层数	layer	1	2	3	4
容绳量	Wire rope capacity(m)	35	75	119	167
液压马达型号	Hydraulic motor	A2FE56/6.1WVAL10			
行星减速器型号	Gearbox model	IGC36 i=177.35			

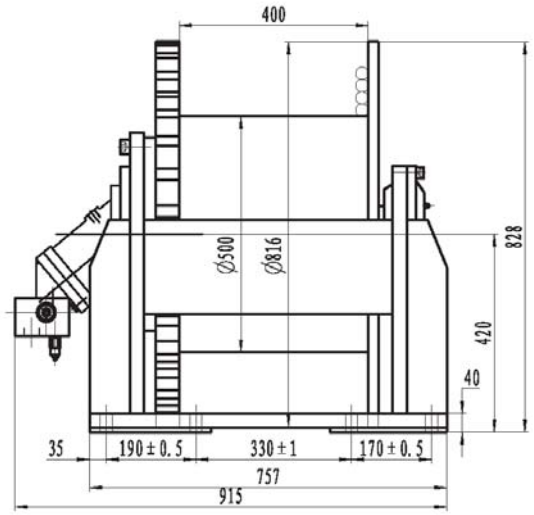
液压原理图
Hydraulic principle diagram

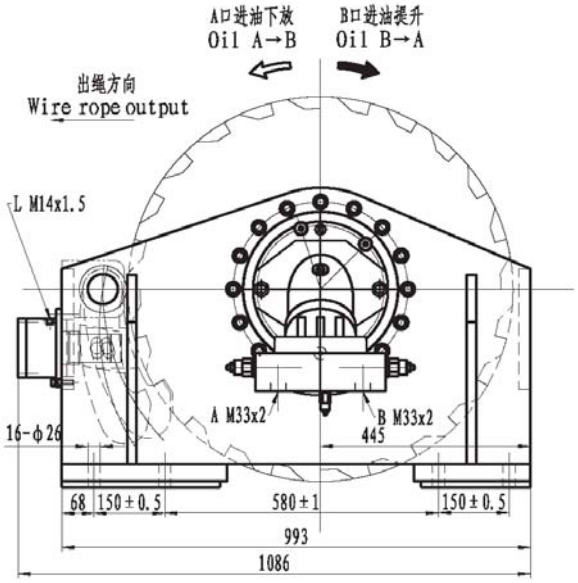


注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

455-130-113-26-ZPGS

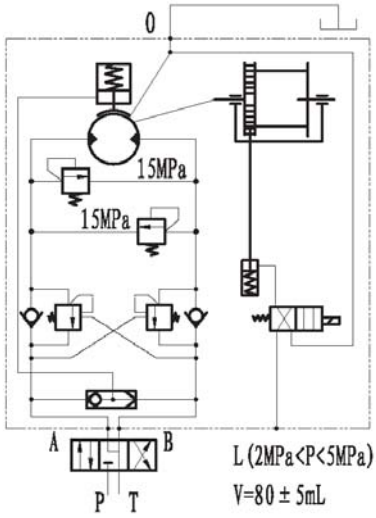




主要技术参数
Main Specification

型号 Model	IYJ455-130-113-26-ZPGS			
第四层拉力 Pull on the 4th layer(kN)	130			
平均绳速 Speed(m/min)	6			
总排量 Total displacement(ml/r)	16602.5			
工作压差 Work pressure diff.(MPa)	21			
供油流量 Oil flow supply(L/min)	58			
钢丝绳直径 Rope diameter (mm)	26			
层数 layer	1	2	3	4
容绳量 Wire rope capacity(m)	24	52	81	113
液压马达型号 Hydraulic motor	A2FE107/6.1WVZL10			
行星减速器型号 Gearbox model	IGC60 i=155.6			

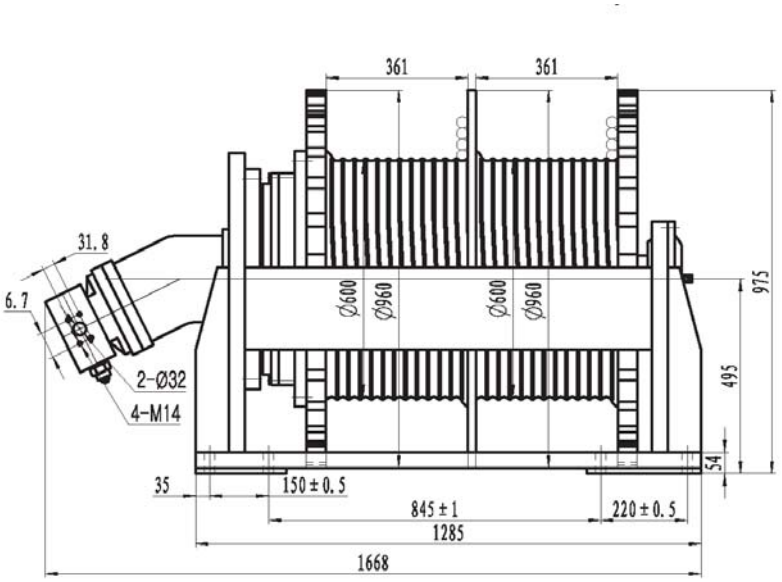
液压原理图
Hydraulic principle diagram

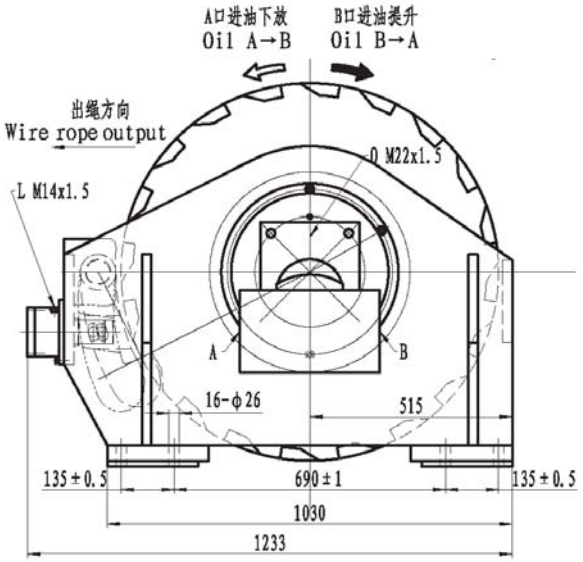


注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

477-153x2-107x2-28-ZPGS

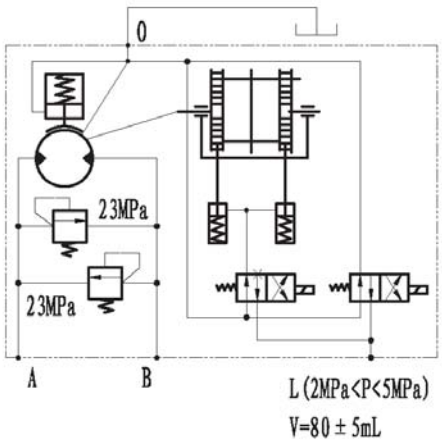




主要技术参数
Main Specification

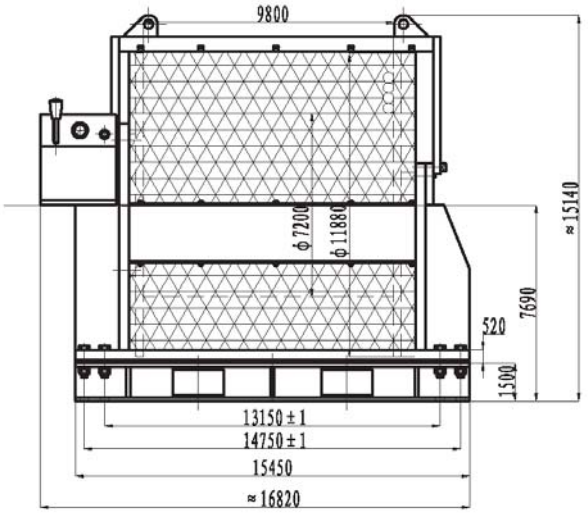
型号	Model	IYJ477-153x2-107x2-28-ZPGS			
第四层拉力	Pull on the 4th layer(kN)	153x2			
平均绳速	Speed(m/min)	10			
总排量	Total displacement(ml/r)	46250			
工作压差	Work pressure diff. (MPa)	21			
供油流量	Oil flow supply (L/min)	220			
钢丝绳直径	Rope diameter (mm)	28			
层数	layer	1	2	3	4
容绳量	Wire rope capacity (m)	23	49	77	107
液压马达型号	Hydraulic motor	A2F250W5Z1			
行星减速器型号	Gearbox model	IGC160 i=185			

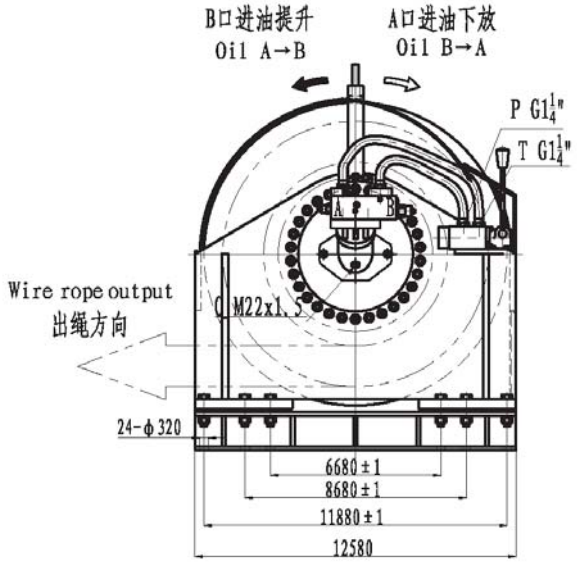
液压原理图
Hydraulic principle diagram



注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

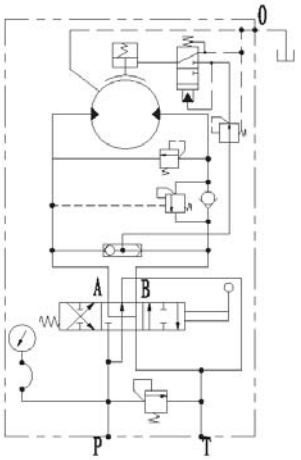




主要技术参数
Main Specification

型号 Model	IYJ477-320-260-40-ZPG
第一层拉力 Pull on the 1st layer(kN)	320
第一层绳速 Speed on the 1st layer(m/min)	9.5
总排量(ml/r) Total displacement(ml/r)	36410.8
工作压差 Work pressure diff.(MPa)	280
供油流量 Oil flow supply(L/min)	157(ηv=0.93)
钢丝绳直径 Rope diameter (mm)	40
层数 layer	4
容绳量 Wire rope capacity(m)	260
液压马达型号 Hydraulic motor	A2FE160/6.1WVZL10
行星减速器型号 Gearbox model	IGC160W3-B227-A2FE160(i=227)

液压原理图
Hydraulic principle diagram



注: 1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

IYJ----L系列自由下放液压绞车

1. 概述

IYJ-----L系列液压绞车由带单向平衡阀及控制制动器的高压梭阀组成的各种集成阀块、液压马达、Z型制动器、行星减速器、卷筒、机架以及离合器等部件组成，用户只需配备泵站和换向阀即可。由于绞车自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性。当配双速马达时，绞车具有可调的两档速度。当采用轴向柱塞马达时，可使绞车的工作压力提高，从而可以提高驱动功率，可适用于大功率绞车。

IYJ---L型液压绞车在提升和下放工作中运转平稳，绞车末级带离合器（本公司发明专利），因而具有自由下放功能。绞车外形美观、尺寸紧凑、经济性好，可广泛用于吊管机、履带吊、汽车起重机、抓斗卷扬机、重力破碎机等起重设备中，该产品现已批量生产，不但在国内广泛应用，并出口到中东、印度、非洲、俄罗斯、荷兰等国家和地区。

2. 型号说明

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

- S：带棘轮棘爪机构，无此字母表示不带
- D：带闸带式制动器，无此字母表示不带
- H*：表示系统设定压力，H_1——表示10MPa；H_2——表示16MPa；H_3——表示20MPa；H_4——表示25MPa；H_5——表示30MPa；H_6——表示35MPa；
- G：由高速马达驱动，无此字母表示由低速大扭矩马达驱动
- P：带平衡阀，无此字母表示不带
- Z：带多片盘式制动器，无此字母表示不带
- L：传动末级带离合器
- **：钢丝绳直径(mm)
- *：容绳量(m)
- *：第一层额定拉力(KN)
- *：行星减速机各级齿轮的模数
- IYJ：意宁牌液压绞车

3. 型号举例

IYJ34-75-88-22-L-ZPGH4表示行星减速器一级齿轮模数为3，二级齿轮模数依次为4，绞车第一层额定拉力为75KN，容绳量为88m，钢丝绳直径为22mm，末级传动带离合器、带多片盘式制动器及单向平衡阀，用高速马达驱动系统设定压力为25MPa的意宁牌液压绞车。

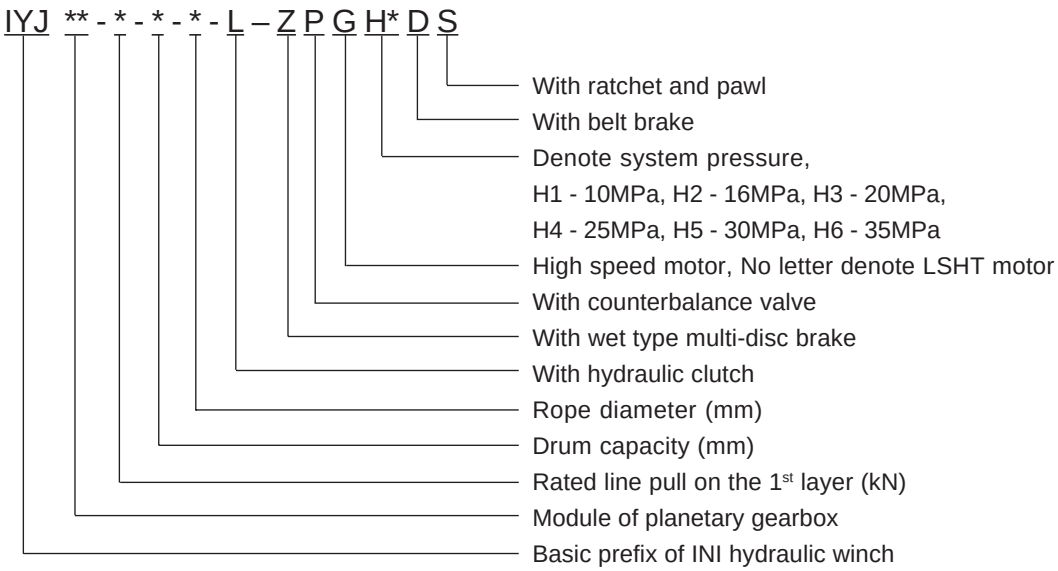
IYJ—L Free Fall Hydraulic Winch Series

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.

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；

2. 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.

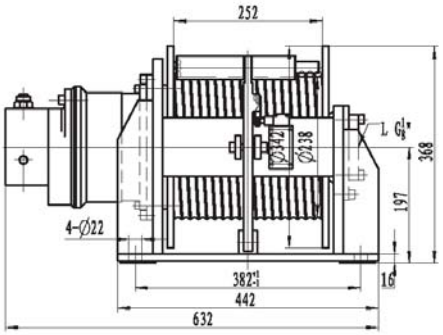
5、本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项，用户订货自选)

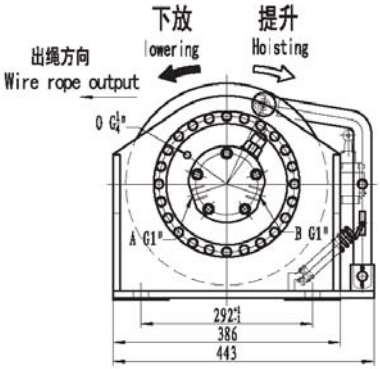
5. Fitted with rope roller and alarm device indicating bottom layer condition. (the item is optional)

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。

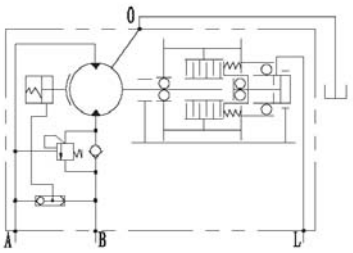
6. The drain port of the hydraulic motor must be separately connected to the reservoir.

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





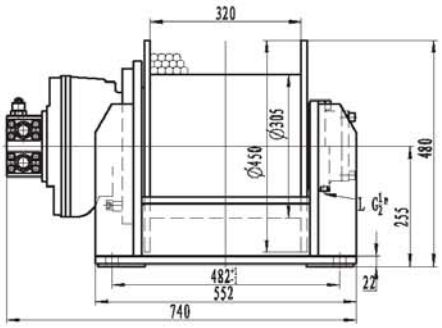
液压原理图
Hydraulic schematic diagram

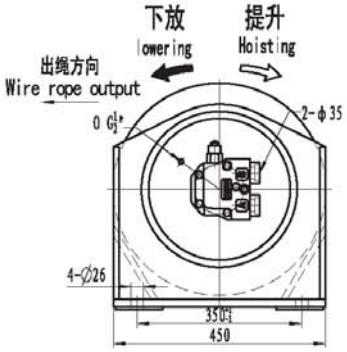


型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer (层)	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	离合器开启压力 The Clutch Opening Presure (MPa)	自由下放时空筒所需的最小重量 Min. Weight for free fall (Kg)	重量 Weight (Kg)
IYJ2.5-5-75-8-L-ZPH2	5	0-30	430	13	0-19	8	1 2 3	24 48 75	INM05-90D51	C2.5A i=5	3	3	25	120
IYJ2.5-5-75-8-L-ZPH3	5	0-30	295	18	0-13	8	1 2 3	24 48 75	INM05-60D51	C2.5A i=5	3	3	25	120
IYJ2.5-10-60-10-L-ZPH2	10	0-30	755	14	0-32	10	1 2 3	19 39 60	INM05-150D51	C2.5A i=5	3	3	25	120
IYJ2.5-10-60-10-L-ZPH3	10	0-30	575	18	0-25	10	1 2 3	19 39 60	INM05-110D51	C2.5A i=5	3	3	25	120
IYJ2.5-15-50-12-L-ZPH2	15	0-30	1050.5	14	0-44	12	1 2 3	16 33 50	INM05-200D51	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	1 2 3	16 33 50	INM05-170D51	C2.5D i=5.5	3	4.5	25	120
IYJ2.5-20-50-12-L-ZPH2	20	0-30	1337	14.6	0-56	12	1 2 3	16 33 50	INM05-200D51	C2.5 i=7	3	6	25	120
IYJ2.5-20-50-12-L-ZPH3	20	0-30	1050.5	18	0-44	12	1 2 3	16 33 50	INM05-200D51	C2.5D i=5.5	3	6	25	120

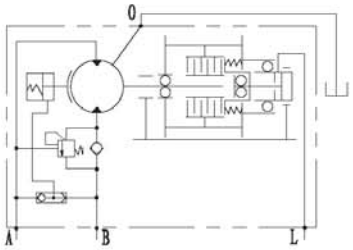
注：1.总排量为卷筒每转一转的供油量；工作压差为绞车工作时A、B两进出油口的压力差；
2.供油流量是泵的理论流量，即在考虑系统容积效率为0.9的情况下计算所得；
3.容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出；
4.当系统压力超过16MPa时，进入制动器处应设置减压阀；对系统回油背压大于1MPa时，制动器控制回路应设置两位三通顺序阀，使制动工况时，制动器油缸直接通油箱；
5.离合器控制压力最高不得超过8MPa；
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项，用户订货自选)

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 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)





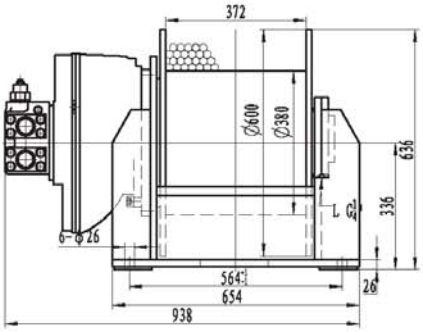
液压原理图
Hydraulic schematic diagram

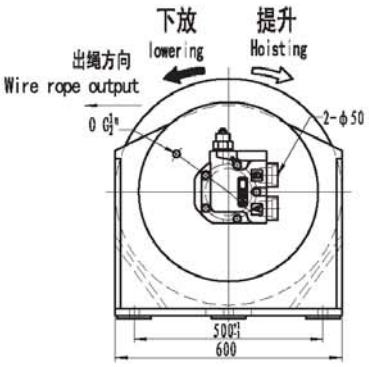


型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 1st layer 绳速(m/min) Rope speed	总排量 Total displacement (ml/rev)	工作压差 Working pressure diff. (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer (层)	容绳量 Wire rope capacity (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	制动器开启压力 The Brake Opening Presure (MPa)	离合器开启压力 The Clutch Opening Presure (MPa)	自由下放时空绳所需的最小重量 Min. Weight for free fall (Kg)	重量 Weight (Kg)
IYJ3-20-69-14-L-ZPH2	20	0-40	1701	14	0-75	14	1 2 3	22 44 69	INM1-250 D120101	C3 i=7	3	5	35	300
IYJ3-20-69-14-L-ZPH3	20	0-40	1407	17	0-62	14	1 2 3	22 44 69	INM1-200 D120101	C3 i=7	3	5	35	300
IYJ3-25-69-14-L-ZPH2	25	0-40	2030	14.5	0-90	14	1 2 3	22 44 69	INM1-300 D120101	C3 i=7	3	5	35	300
IYJ3-25-69-14-L-ZPH3	25	0-40	1701	17.6	0-76	14	1 2 3	22 44 69	INM1-250 D120101	C3 i=7	3	5	35	300
IYJ3-30-66-15-L-ZPH2	30	0-40	2465	14.4	0-109	15	1 2 3	21 42 66	INM2-500 D120101	C3A i=5	3	5	35	300
IYJ3-30-66-15-L-ZPH3	30	0-40	1908.5	18.8	0-85	15	1 2 3	21 42 66	INM2-350 D120101	C3D i=5.5	3	5	35	300
IYJ3-35-66-15-L-ZPH2	35	0-40	2825	14.7	0-125	15	1 2 3	21 42 66	INM2-600 D240101	C3A i=5	3	7	35	300
IYJ3-35-66-15-L-ZPH3	35	0-40	2337.5	18	0-104	15	1 2 3	21 42 66	INM2-420 D240101	C3D i=5.5	3	7	35	300
IYJ3-40-64-16-L-ZPH2	40	0-40	3426.5	14	0-151	16	1 2 3	20 40 64	INM2-630 D240101	C3D i=5.5	3	7	35	300
IYJ3-40-64-16-L-ZPH3	40	0-40	2711.5	17.5	0-120	16	1 2 3	20 40 64	INM2-500 D240101	C3D i=5.5	3	7	35	300

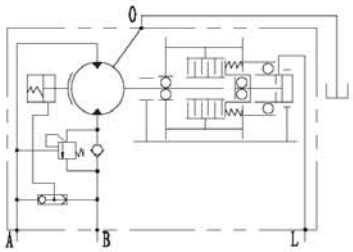
注：1. 总排量为卷筒每转一转的供油量；工作压差为绞车工作时A、B两进出油口的压力差；
2. 供油流量是泵的理论流量，即在考虑系统容积效率为0.9的情况下计算所得；
3. 容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出；
4. 当系统压力超过16MPa时，进入制动器处应设置减压阀；对系统回油背压大于1MPa时，制动器控制回路应设置两位三通顺序阀，使制动工况时，制动器油缸直接通油箱；
5. 离合器控制压力最高不得超过8MPa；
6. 本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项，用户订货自选)

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 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)





液压原理图
Hydraulic schematic diagram



型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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)	离合器开启压力 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)
IYJ4-45-108-18-L-ZPH2	45	0-50	4935	13.6	0-212	18	2 3 4	50 79 108	INM3-1000 D240101	C4A i=5	3	5	50	650
IYJ4-45-108-18-L-ZPH3	45	0-50	3795	17.3	0-169	18	2 3 4	50 79 108	INM3-700 D240101	C4D i=5.5	3	5	50	650
IYJ4-50-97-20-L-ZPH2	50	0-50	5428.5	13.5	0-240	20	2 3 4	45 71 97	INM3-1000 D480101	C4D i=5.5	3	5	50	650
IYJ4-50-97-20-L-ZPH3	50	0-50	3960	18.4	0-175	20	2 3 4	45 71 97	INM3-800 D240101	C4A i=5	3	5	50	650
IYJ4-55-97-20-L-ZPH2	55	0-50	5621	14.3	0-249	20	2 3 4	45 71 97	INM4-1000 D480101	C4D i=5.5	3	5	50	685
IYJ4-55-97-20-L-ZPH3	55	0-50	4520	17.8	0-200	20	2 3 4	45 71 97	INM4-900 D480101	C4A i=5	3	5	50	685
IYJ4-60-93-21.5-L-ZPH2	60	0-50	6138	14.4	0-270	21.5	2 3 4	43 68 93	INM4-1100 D480101	C4D i=5.5	3	7	50	685
IYJ4-60-93-21.5-L-ZPH3	60	0-50	4972	17.7	0-220	21.5	2 3 4	43 68 93	INM4-900 D480101	C4D i=5.5	3	7	50	685
IYJ4-65-93-21.5-L-ZPH2	65	0-50	6858.5	14	0-302	21.5	2 3 4	43 68 93	INM4-1250 D480101	C4D i=5.5	3	7	50	685
IYJ4-65-93-21.5-L-ZPH3	65	0-50	5621	17.2	0-246	21.5	2 3 4	43 68 93	INM4-1100 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；
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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；
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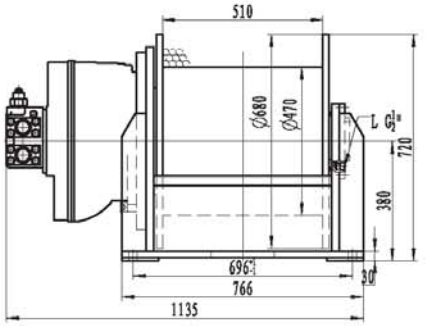
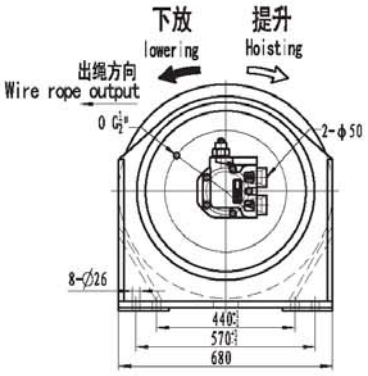
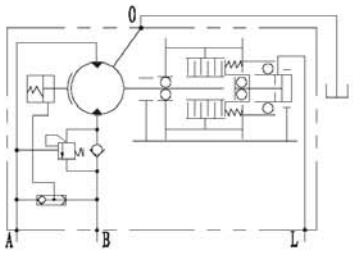




液压原理图
Hydraulic schematic diagram



型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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)	离合器开启压力 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)
IYJ5-65-112-21.5-L-ZPH2	65	0-40	9212	13	0-239	21.5	1 2 3	35 71 112	INM4-1300 D480101	C5 i=7	3	6	50	1200
IYJ5-65-112-21.5-L-ZPH3	65	0-40	6328	18.2	0-182	21.5	1 2 3	35 71 112	INM4-900 D480101	C5 i=7	3	6	50	1200
IYJ5-70-112-21.5-L-ZPH2	70	0-40	8729	14.4	0-251	21.5	1 2 3	35 71 112	INM4-1250 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	1 2 3	35 71 112	INM4-1000 D480101	C5 i=7	3	6	50	1200
IYJ5-80-103-24-L-ZPH2	80	0-40	10035	14.7	0-286	24	1 2 3	32 65 103	INM5-2000 D480101	C5A i=5	3	6	50	1200
IYJ5-80-103-24-L-ZPH3	80	0-40	8170	17.7	0-234	24	1 2 3	32 65 103	INM5-1600 D480101	C5A i=5	3	6	50	1200
IYJ5-90-95-26-L-ZPH2	90	0-40	11698.5	14	0-334	26	1 2 3	30 60 95	INM6-2100 D480101	C5D i=5.5	3	8	50	1200
IYJ5-90-95-26-L-ZPH3	90	0-40	9295	18	0-259	26	1 2 3	30 60 95	INM6-1700 D480101	C5D i=5.5	3	8	50	1200
IYJ5-100-57-28-L-ZPH2	100	0-40	13821.5	13.2	0-393	28	1 2	28 57	INM6-2500 D480101	C5D i=5.5	3	8	50	1200
IYJ5-100-57-28-L-ZPH3	100	0-40	10052	18.1	0-286	28	1 2	28 57	INM6-2500 D480101	C5D i=5.5	3	8	50	1200

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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；
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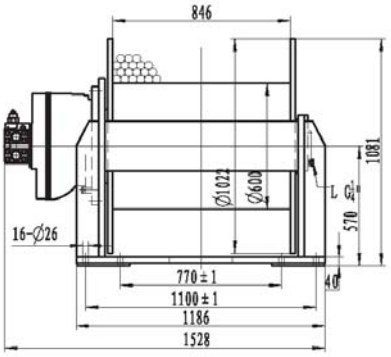
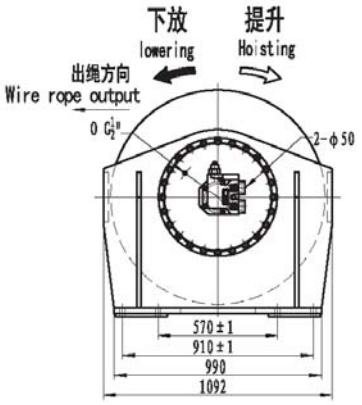
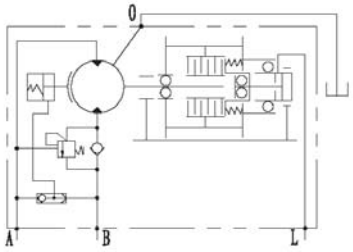




液压原理图
Hydraulic schematic diagram



型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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)	离合器开启压力 The Clutch Opening Presure (MPa)	自由下放时空绳所需的最小重量 Min. Weight for free fall (Kg)	重量 Weight (Kg)
IYJ6-100-335-28-L-ZPH2	100	0-30	17591	13.3	0-297	28	3	188	INM6-2500 D480101	C6 i=7	3	2	75	2200
							4	258						
							5	335						
IYJ6-100-335-28-L-ZPH3	100	0-30	12712	18	0-215	28	3	188	INM5-1800 D480101	C6 i=7	3	2	75	2200
							4	258						
							5	335						
IYJ6-110-335-28-L-ZPH2	110	0-30	17591	14.4	0-297	28	3	188	INM6-2500 D480101	C6 i=7	3	2.2	75	2200
							4	258						
							5	335						
IYJ6-110-335-28-L-ZPH3	110	0-30	13821.5	18.3	0-233	28	3	188	INM6-2500 D480101	C6D i=5.5	3	2.2	75	2200
							4	258						
							5	335						
IYJ6-120-315-30-L-ZPH3	120	0-30	16725.5	17	0-281	30	3	176	INM6-3000 D480101	C6D i=5.5	3	2.4	75	2200
							4	242						
							5	315						
IYJ6-130-298-32.5-L-ZPH3	130	0-30	16725.5	18	0-280	32.5	3	165	INM6-3000 D480101	C6D i=5.5	3	2.6	75	2200
							4	228						
							5	298						
IYJ6-150-276-34-L-ZPH3	150	0-30	19904.5	18	0-235	34	3	153	HGM31-3500 D480101	C6D i=5.5	3	3.0	75	2400
							4	211						
							5	276						
IYJ6-180-198-38-L-ZPH3	180	0-30	23430	18	0-393	38	2	90	HGM31-4000 D480101	C6D i=5.5	3	3.6	75	2400
							3	143						
							4	198						

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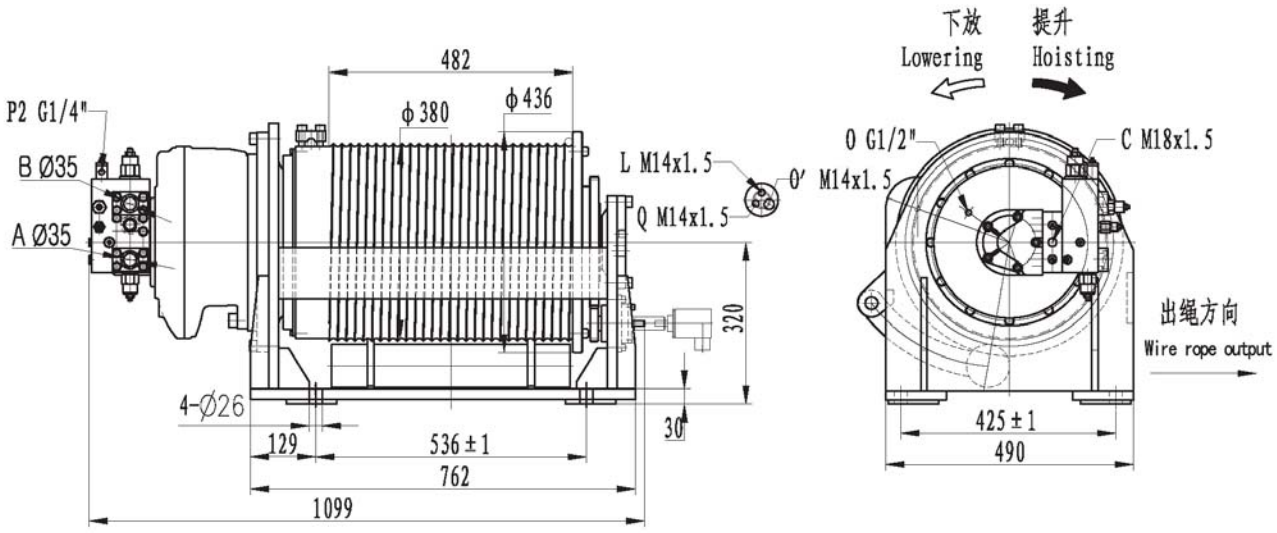
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

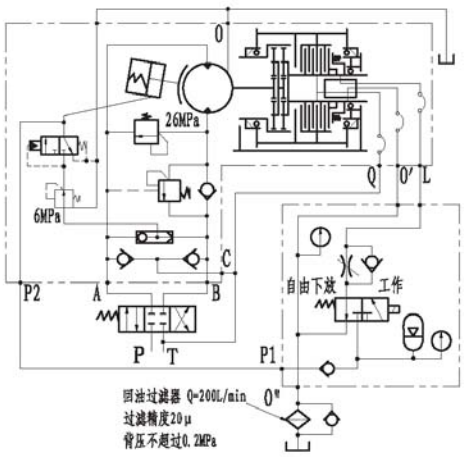
IYJ4-48-20-16-L-ZPH3



主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(kN)		47.5
第一层最大绳速 Max.speed on the 1st layer(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+F240111P	
减速机型号 Gearbox type	C4F(i=4.13)	
离合器完全开启压力 Clutch openning pressure(MPa)		5.5
自由下放空钩最小重量 Single rope pull on free rotary(Kg)		80

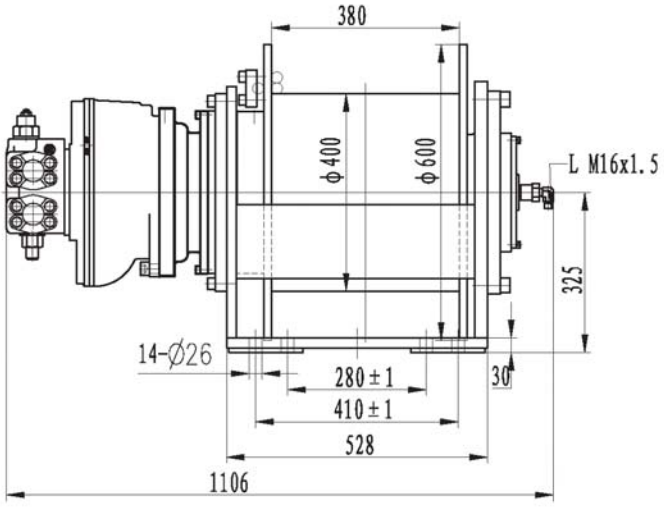
液压原理图(Hydraulic principle diagram)

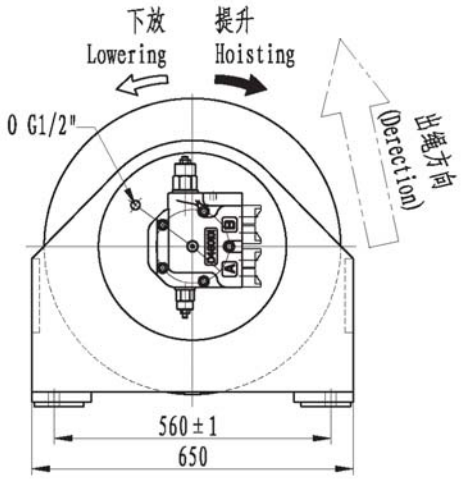


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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 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

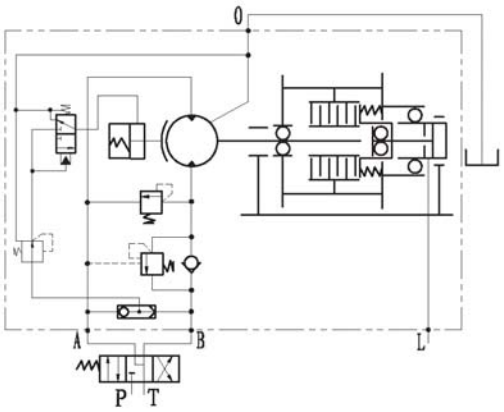




主要技术性能参数 (Main Specifition)

第二层最大拉力 Max.full on the 2nd layer(kN)		50
第二层最大绳速 Max.speed on the 2nd layer(m/min)		50
卷筒总排量 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 pressure(MPa)		7.5
自由下放空钩最小重量 Single rope pull on free rotary(Kg)		100

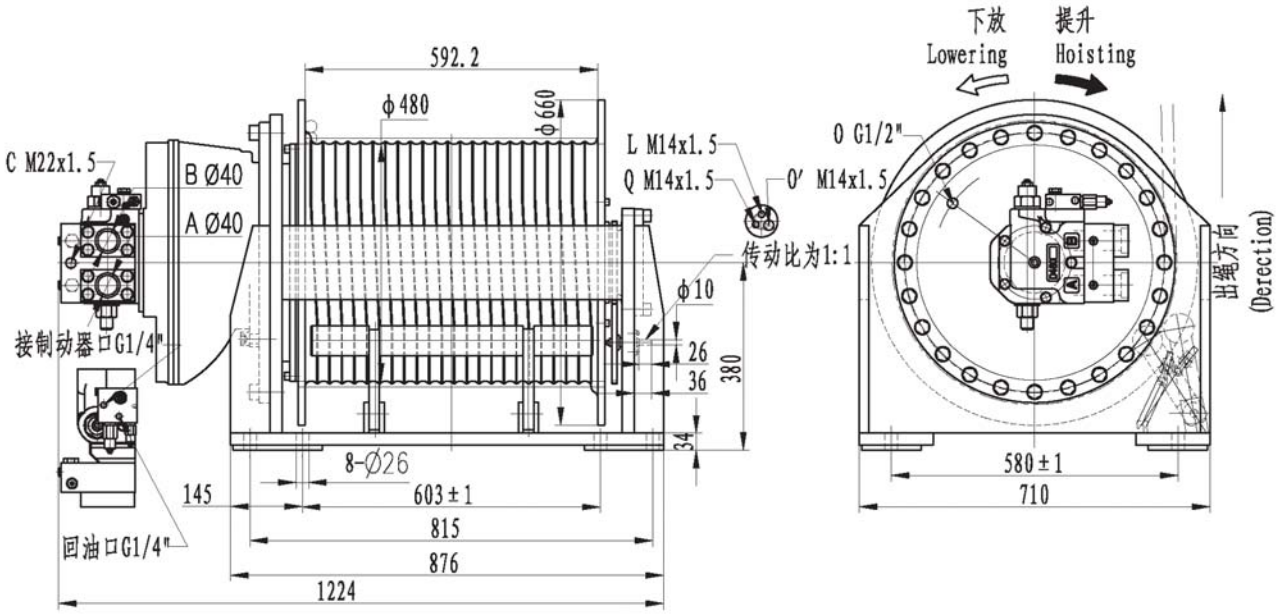
液压原理图(Hydraulic principle diagram)



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 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)

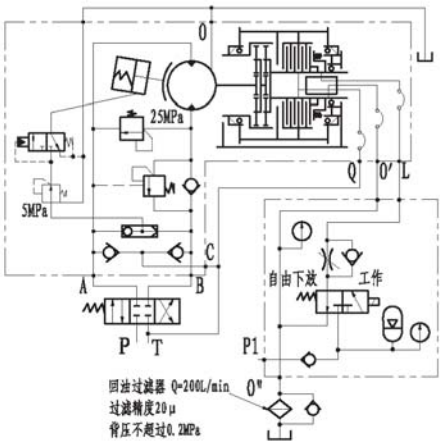
IYJ5-125-70-24-L-ZPH4



主要技术性能参数 (Main Specifition)

第二层最大拉力 Max.full on the 2nd layer(kN)		125
第二层最大绳速 Max.speed on the 2nd layer(m/min)		55
卷筒总排量 Total displacement(mL/r)		11038.5
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	INM5-2000D480111P	
减速机型号 Gearbox type	C5DI(i=5.5)	
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)		120

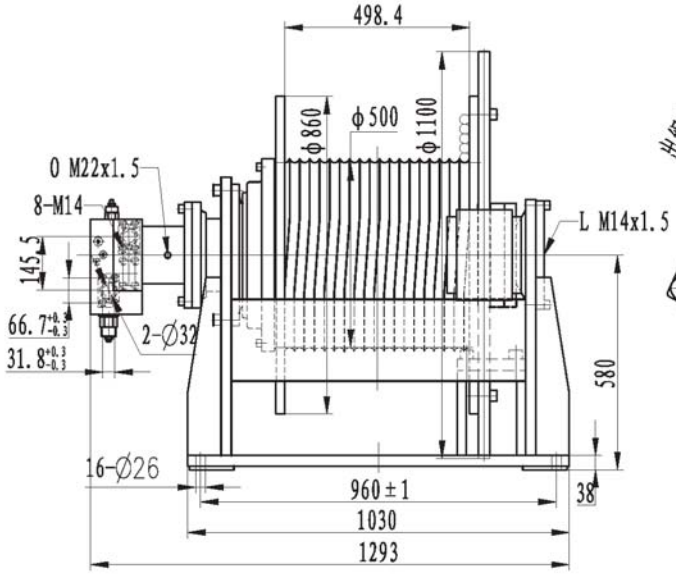
液压原理图(Hydraulic principle diagram)

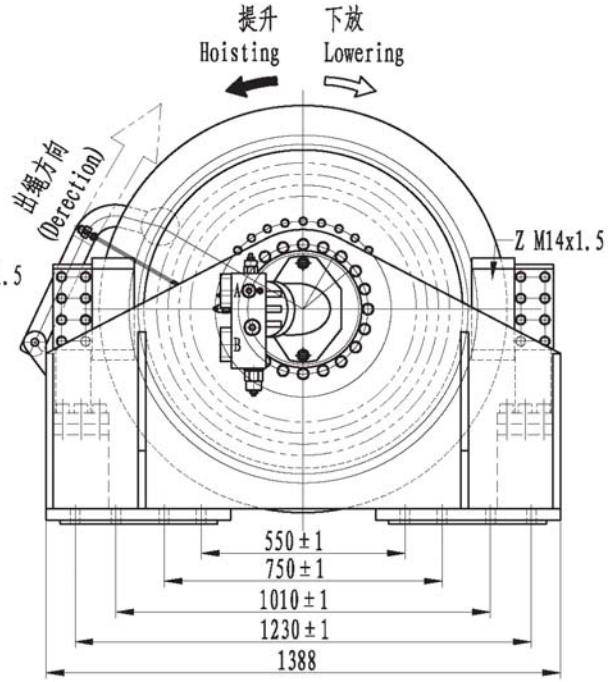


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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 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)

IYJ46-94-180-26-ZPGH5Q

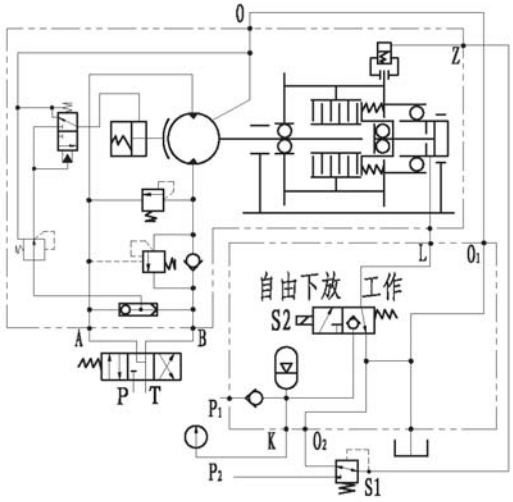




主要技术性能参数 (Main Specifition)

第五层最大拉力 Max.full on the 5th layer(KN)	94
第一层最大绳速 Max.speed on the 1st layer(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)	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	A2FB160/6.1WVZL10+F480111P
减速机型号 Gearbox type	C46I(i=63.5072)
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)	100

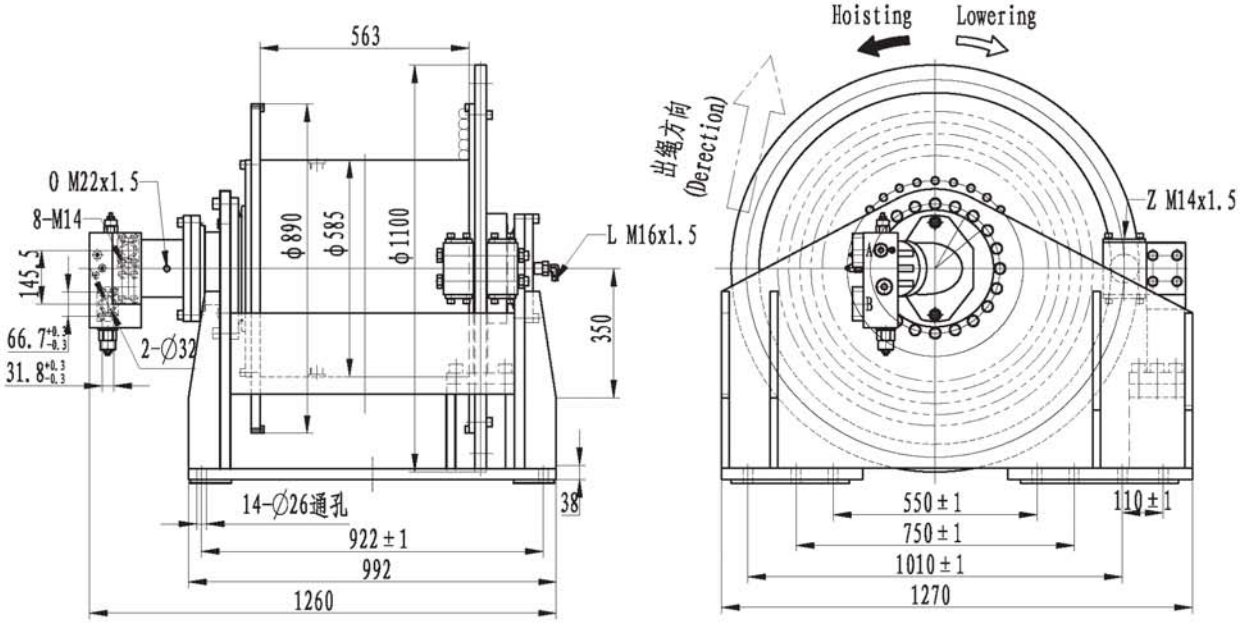
液压原理图(Hydraulic principle diagram)



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 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)

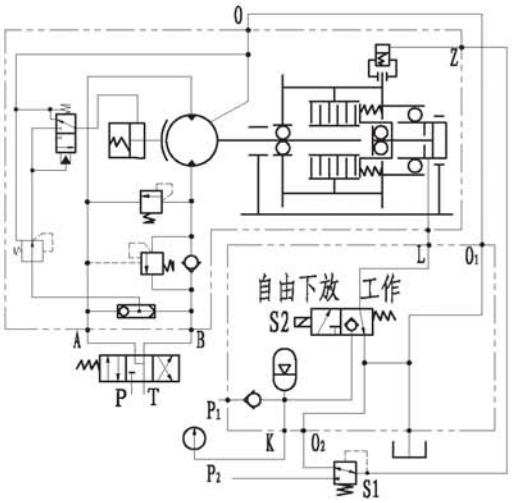
IYJ46-110-180-26-L-ZPGH5Q



主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(KN)	110
第一层最大绳速 Max.speed on the 1st layer(m/min)	66
卷筒总排量 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	A2FE160/6.1WVZL10+F480111P
减速机型号 Gearbox type	C46I(i=63.5072)
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)	100

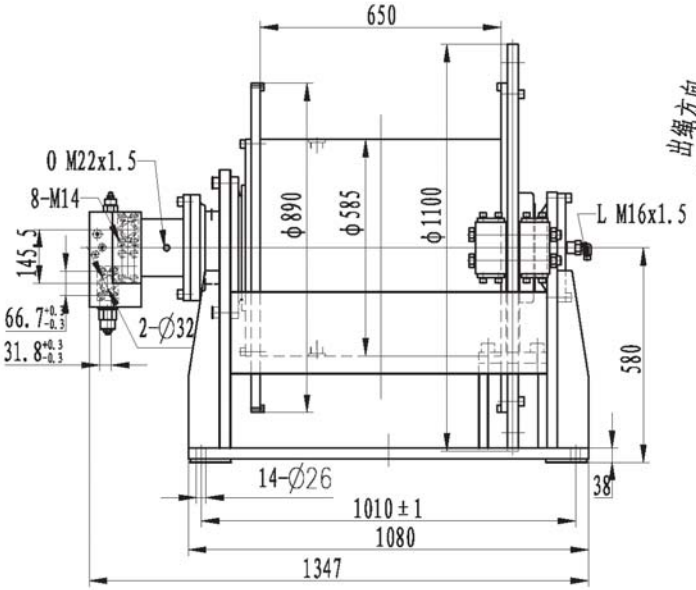
液压原理图(Hydraulic principle diagram)

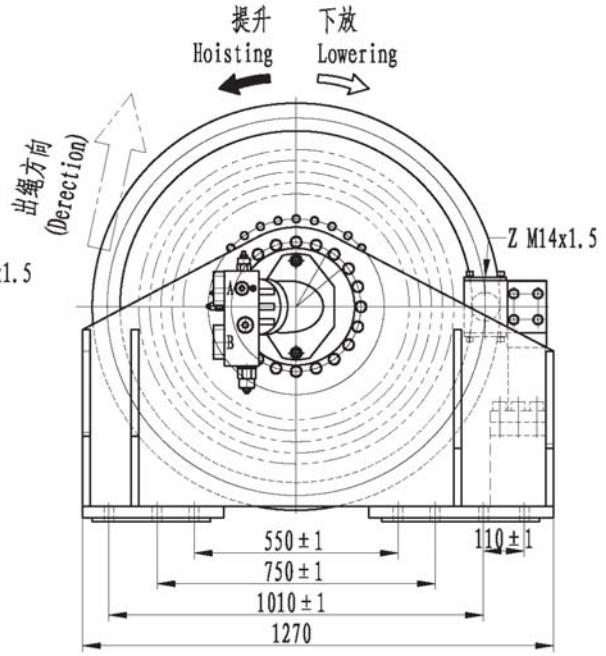


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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 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

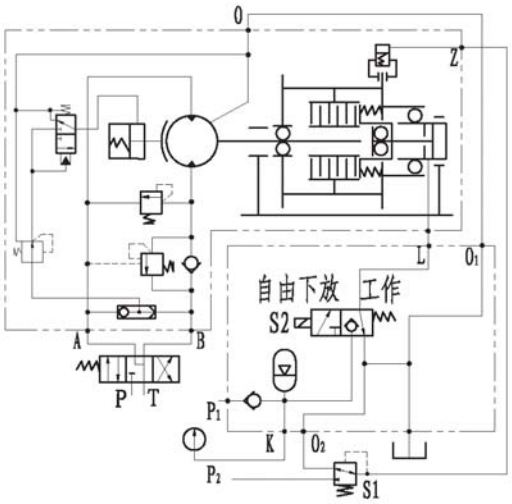




主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(KN)		125
第一层最大绳速 Max.speed on the 1st layer(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	A2FE180/6.1WVZL10+F480111P	
减速机型号 Gearbox type	C46I(i=63.5072)	
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)		100

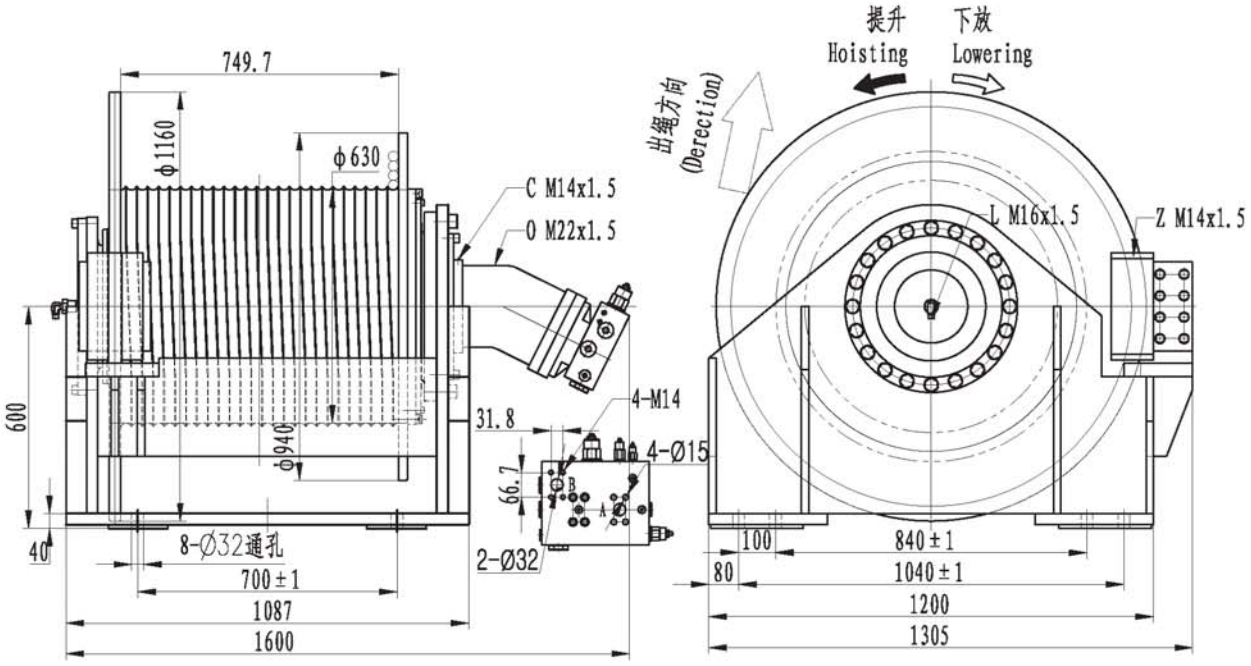
液压原理图(Hydraulic principle diagram)



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 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)

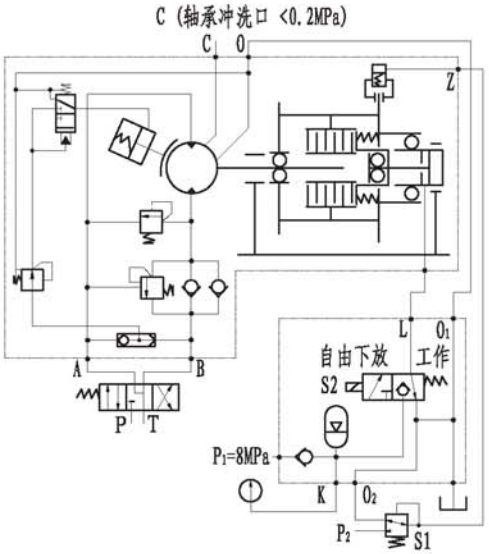
IYJ4.57-150-232-28-ZPGH5Q



主要技术性能参数 (Main Specifition)

第一层最大拉力 Max.full on the 1st layer(KN)	150
第一层最大绳速 Max.speed on the 1st layer(m/min)	81
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+F720111P
减速机型号 Gearbox type	C4.57I(i=51.75)
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)	100

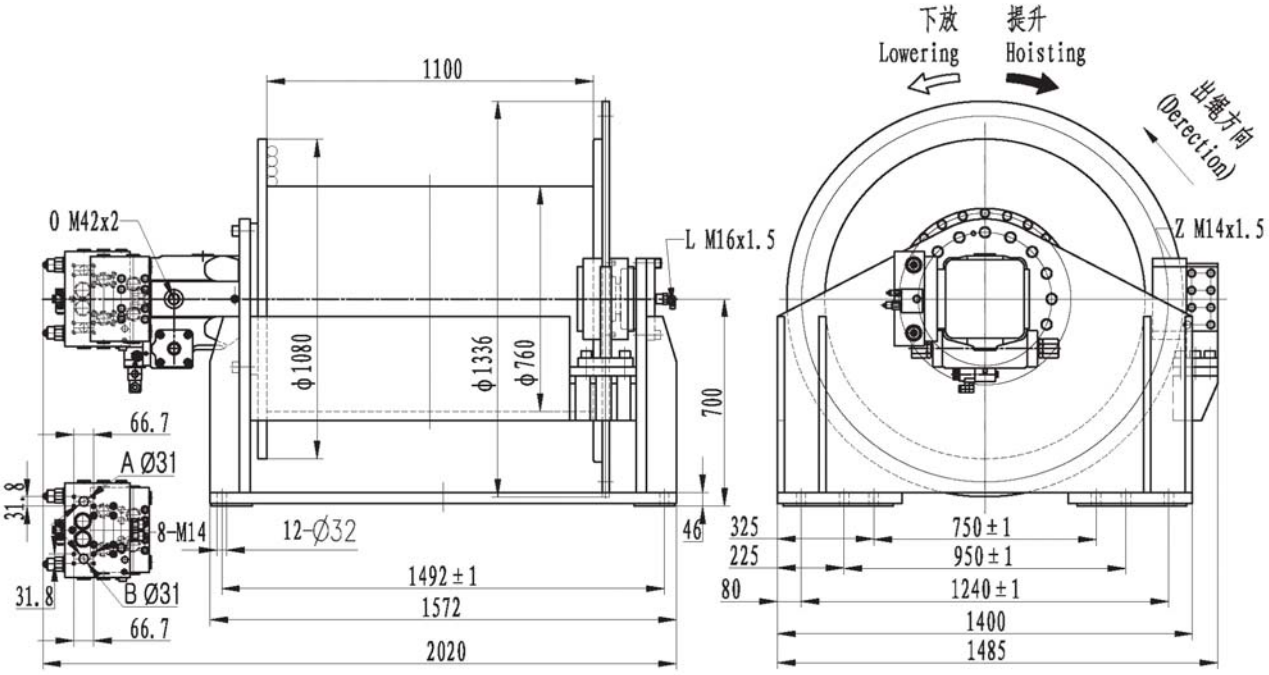
液压原理图(Hydraulic principle diagram)



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, 进入制动器关应设置减压阀; 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 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)

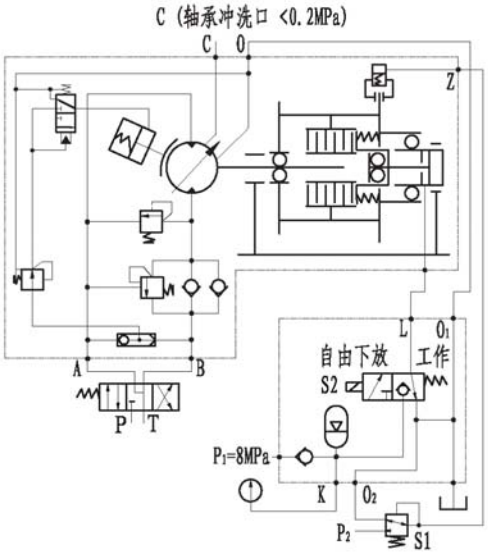
IYJ577-200-260-32-L-ZPGH5Q



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+F720111P	
减速机型号 Gearbox type	C577I(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

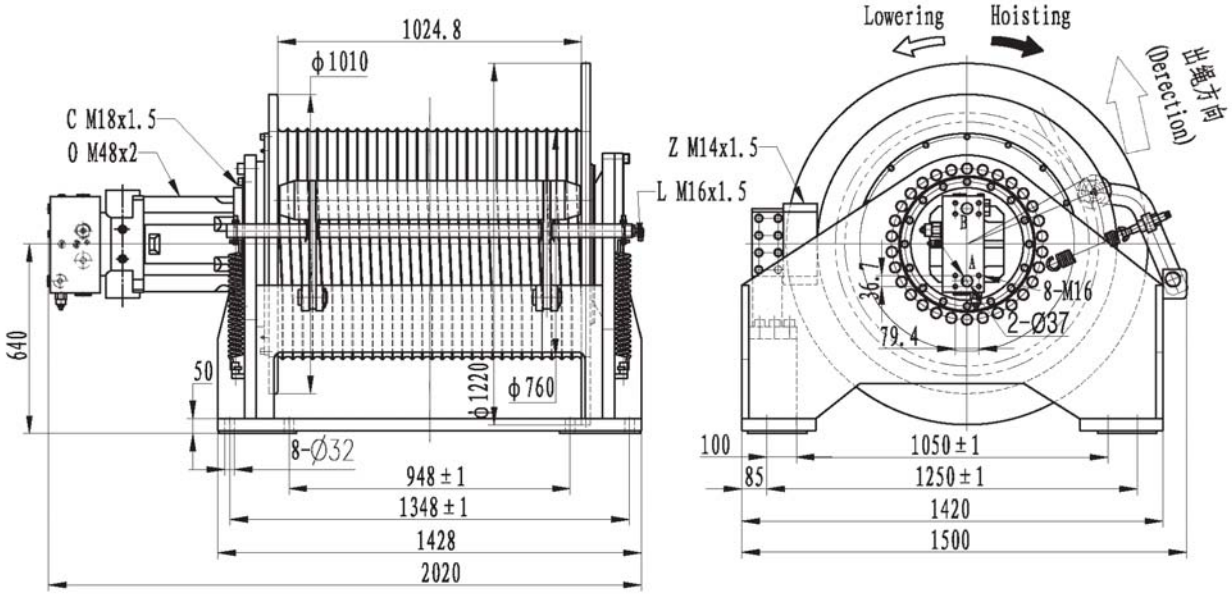
液压原理图(Hydraulic principle diagram)



注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两近出油口的压力差;
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 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)

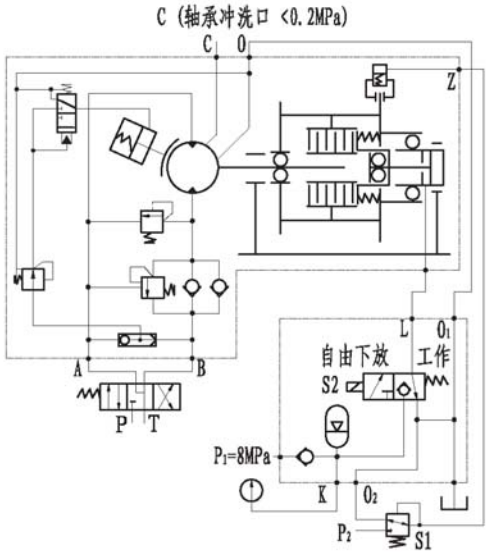
IYJ577-225-145-32-L-ZPGH5Q



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
卷筒总排量 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
减速机型号 Gearbox type	C577I(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)

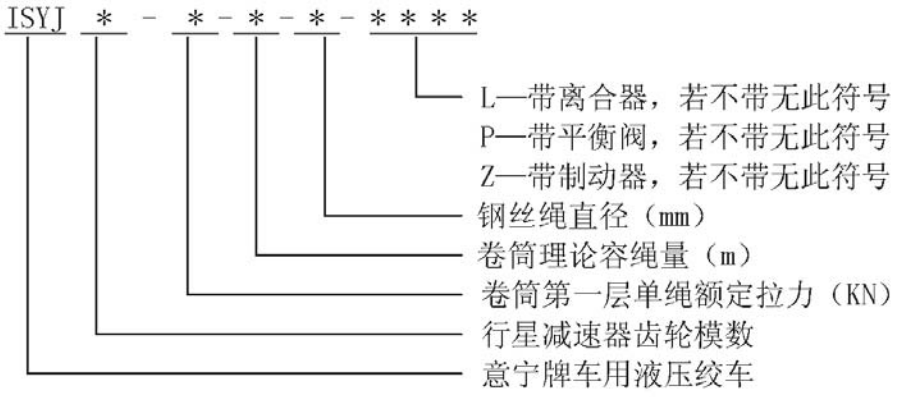
Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
3. Capacity of rope 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)

● ISYJ 系列车用液压绞车

1、概述：

ISYJ 系列车用液压绞车是本公司的专利产品，由带单向或双向平衡阀及控制制动器的高压梭阀组成的各种配流器，INM 型液压马达、Z 型制动器、C 型行星减速器、卷筒、机架等部件组成（液压系统原理见图），用户只需配备泵站和换向阀即可。由于绞车自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性，除此，它还具有起动和工作时效率高、能耗少、噪音低、外形美观、尺寸紧凑、经济性好等特点，它广泛用于起重抢救车、越野车、军用重型车辆和推土机等车辆上，用于抢救损坏的或陷入淤泥中的各种车辆，并可实施拖曳重物和进行自救等作业。该系列产品已在国内广泛应用，并已出口到荷兰、中东、东南亚、韩国等国家地区。

2、型号说明



3、型号举例：

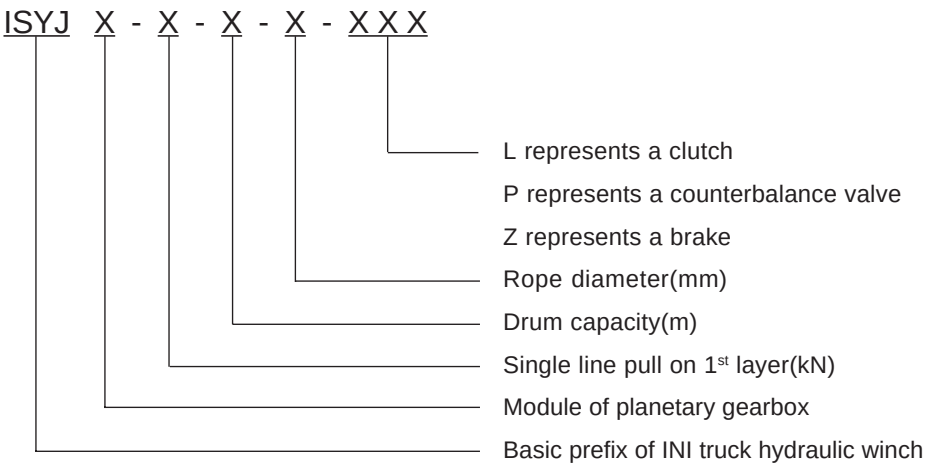
ISYJ2.5-10-103-8-ZPL 表示此绞车的行星减速器模数为 2.5，钢丝绳的第一层额定拉力为 10KN,卷筒理论容绳量为 103m,钢丝绳直径为 8mm,此绞车带制动器、单向平衡阀及离合器。

ISYJ Hydraulic Winch Series

1. Brief Introduction

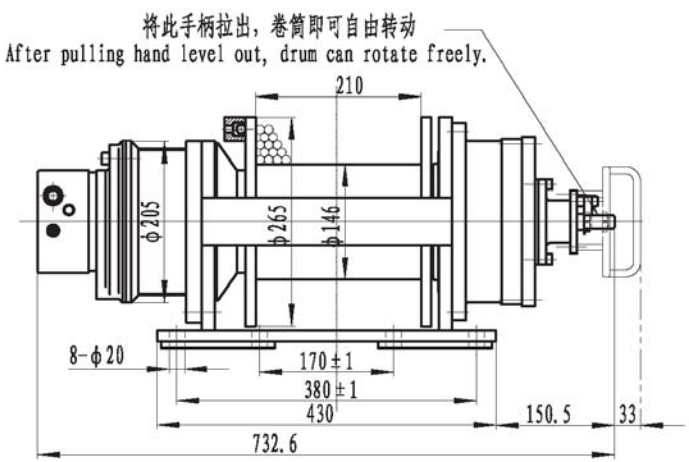
The ISYJ hydraulic winch series are patent products of our company and consist of a variety of distributors with shuttle valves controlling the brake and single or dual counterbalance valves, INM type hydraulic motor, Z type brake, C type planetary gearbox, drum, frame and so on(to see hydraulic diagram). The user only needs to provide a hydraulic power pack and directional valve. Due to the winches fitted with diversified valve block, it not only simplified the hydraulic system, but also improved the reliability of the winches. In addition, the winches feature a high efficiency at start-up and operation, low noise and energy consumption, and have a compact figure and good economic value. 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. ISYJ series hydraulic winches have been well sold in China and also have been exported to Netherlands, the Middle-east, the south-east Asia, Korea and so on.

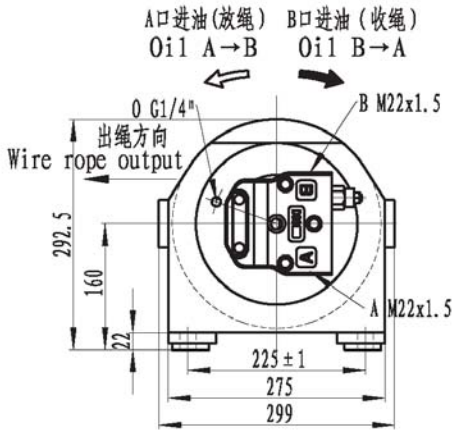
2. Model Options



3. Options Example

ISYJ2.5-10-103-8-ZPL represents that he modules of the gearbox of the winch is 2.5. The rated single pull on 1st layer is 10kN, drum capacity is 103m, rope diameter is 8 mm. The winch is fitted with brake, counterbalance valve and clutch.



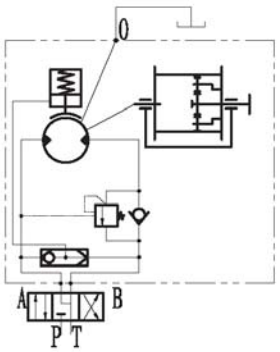


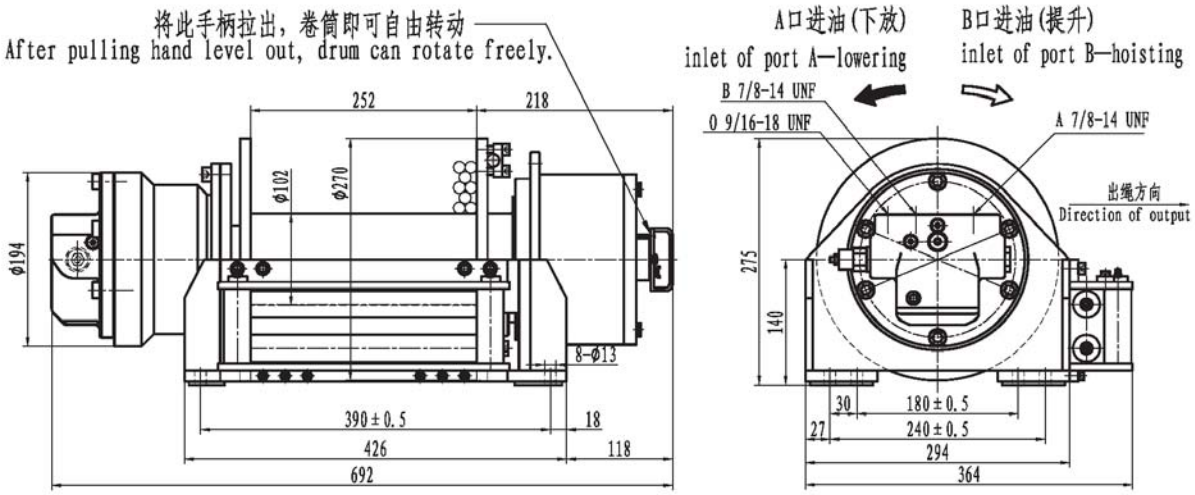
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ2.5-10-75-8-ZPL	10	0~12	407	15	12	8	1	12.5	INM05-75D60101	C2.5D(i=5.5)	90
							2	26			
							3	41.5			
							4	58			
							5	75			
ISYJ2.5-20-69-9-ZPL	20	0~12	830.5	17.5	23	9	1	11	INM05-150D60101	C2.5D(i=5.5)	90
							2	23.5			
							3	37.5			
							4	52.5			
							5	69			
ISYJ2.5-30-64-10-ZPL	30	0~10	1050.5	17.5	24	10	1	10	INM05-200D60101	C2.5D(i=5.5)	90
							2	21.5			
							3	34.5			
							4	49			
							5	64			

注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、绞车在受力情况下不可使用离合器；
5、离合器合上后必须将防脱出保护板挡住离合器手柄，以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图
Hydraulic principle diagram



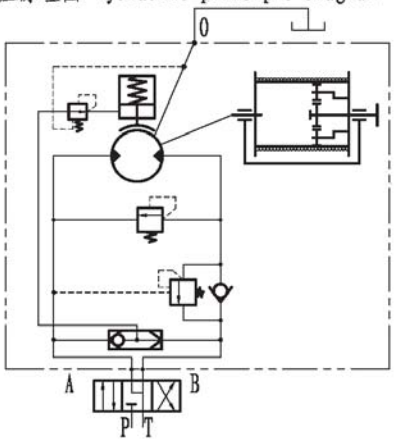


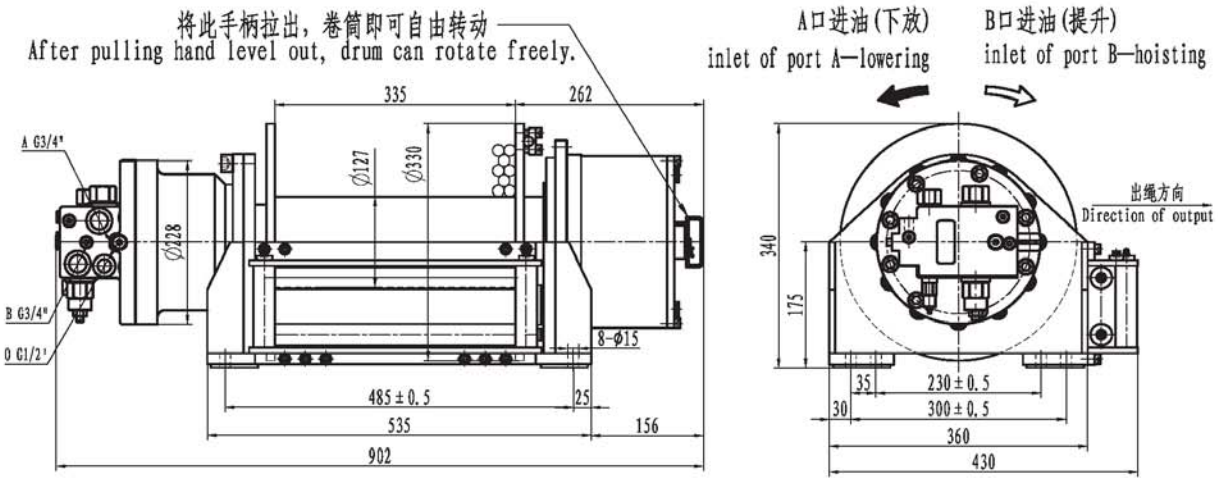
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ22-36-52-12-ZPL	36	17	1166	14	60	12	1	7	IM22	C022 (i=53)	95
							2	16			
							3	27			
							4	39			
							5	52			
ISYJ22-45-52-12-ZPL	45	14.3	1378	14	60	12	1	7	IM26	C022 (i=53)	95
							2	16			
							3	27			
							4	39			
							5	52			
ISYJ22-52-52-12-ZPL	52	12.4	1590	14	60	12	1	7	IM30	C022 (i=53)	95
							2	16			
							3	27			
							4	39			
							5	52			
ISYJ22-68-50-13-ZPL	68	10.8	1850	14	60	13	1	7	IM30	C022 (i=53)	95
							2	15			
							3	26			
							4	38			
							5	50			

注意事项: 1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;
2、换向阀中位机能必须为“Y”型或“H”型;
3、液压绞车不允许载人;
4、绞车在受力情况下不可使用离合器;
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图 Hydraulic principle diagram



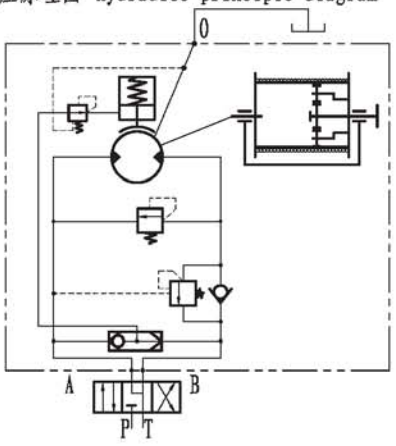


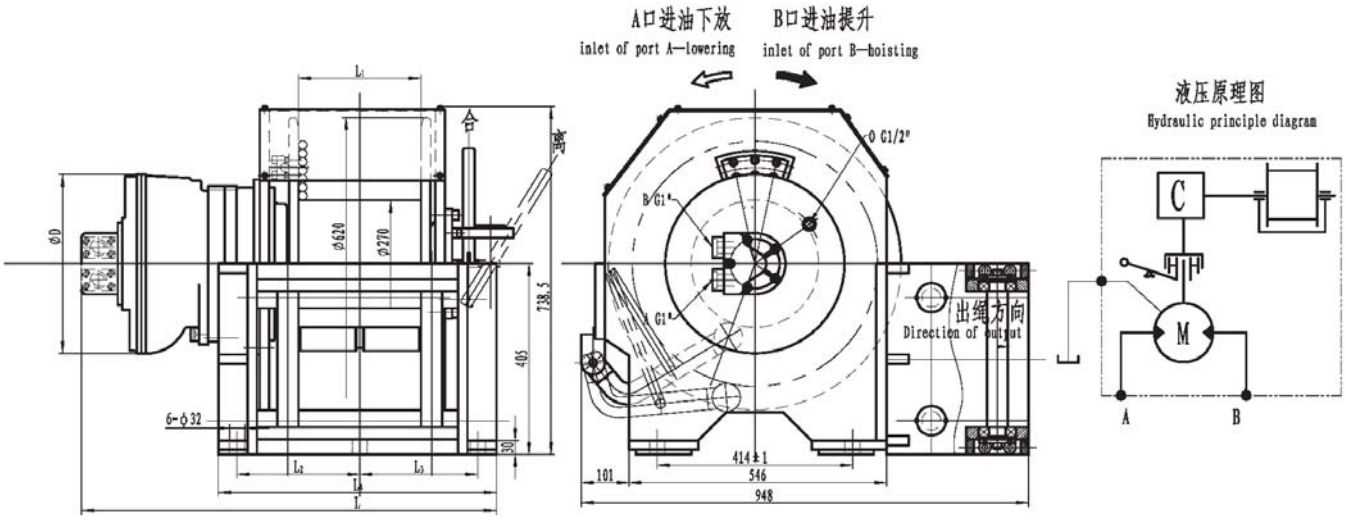
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ2.52.5-70-65-16-ZPL	70	12	2584	15	75	16	1	9	IM87	C02.52.5 (i=29.6)	145
							2	20			
							3	33			
							4	48			
							5	65			
ISYJ2.52.5-80-65-16-ZPL	80	12	2584	17	75	16	1	9	IM87	C02.52.5 (i=29.6)	145
							2	20			
							3	33			
							4	48			
							5	65			
ISYJ2.52.5-90-65-16-ZPL	90	9	3563	16	75	16	1	9	IM87	C02.52.5 (i=45.1)	145
							2	20			
							3	33			
							4	48			
							5	65			
ISYJ2.52.5-100-65-16-ZPL	100	9	3563	16	75	16	1	9	IM87	C02.52.5 (i=45.1)	145
							2	20			
							3	33			
							4	48			
							5	65			

注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、绞车在受力情况下不可使用离合器；
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险。

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图 Hydraulic principle diagram





基型	型 号 Model	第一层 The 1st layer 拉力(KN) Pull	第一层 The 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 Supply oil flow (L/min)	钢丝绳直径 Diameter of rope (mm)	层数 Layer (层)	容绳量 Capacity of rope (m)	液压马达型号 Hydraulic motor	行星减速器型号 Gearbox model	重量 Weight (Kg)
1	ISYJ4-40-134-16-LA	40	13.9	2429	18.5	42	16	1	14	INM2-350D47	C4 i=7	650
								2	30			
								3	48			
								4	67			
								5	88			
								6	110			
								7	134			
2	ISYJ4-70-122-18-LA	70	14.8	3795	20.5	69	18	1	12	INM3-700D47	C4D i=5.5	670
								2	27			
								3	42			
								4	60			
								5	79			
								6	100			
								7	122			
3	ISYJ4-100-126-20-LA	100	14.8	6138	18.5	110	20	1	12	INM4-1100D47	C4D i=5.5	690
								2	27			
								3	43			
								4	61			
								5	81			
								6	103			
								7	126			

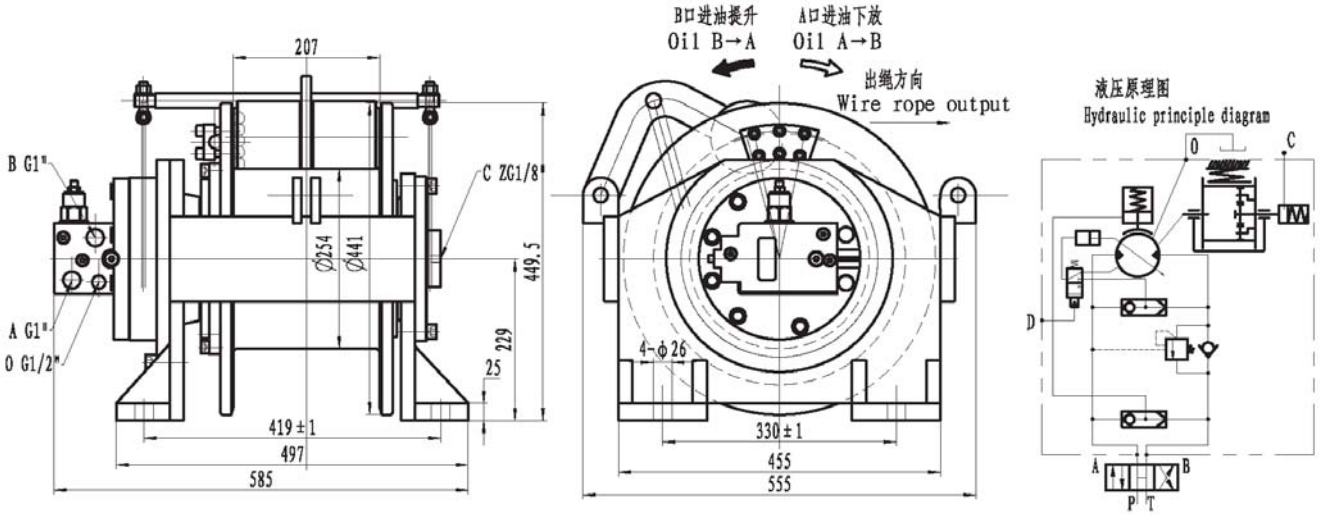
外形尺寸 Profile Dimension

	L_1 (mm)	L_2 (mm)	L_3 (mm)	L_4 (mm)	L (mm)	D (mm)
1	260	255	255	590	975	300
2	260	255	255	590	997	380
3	282	266	266	612	1038	410

注： 本系列绞车不允许载人，如有需要必须与本公司技术部门联系。

Note: The winch is not designed for operations involving lifting or moving personnel. If you need please contract the R&D department.

333-90/45-63/16-ZPL



主要技术参数

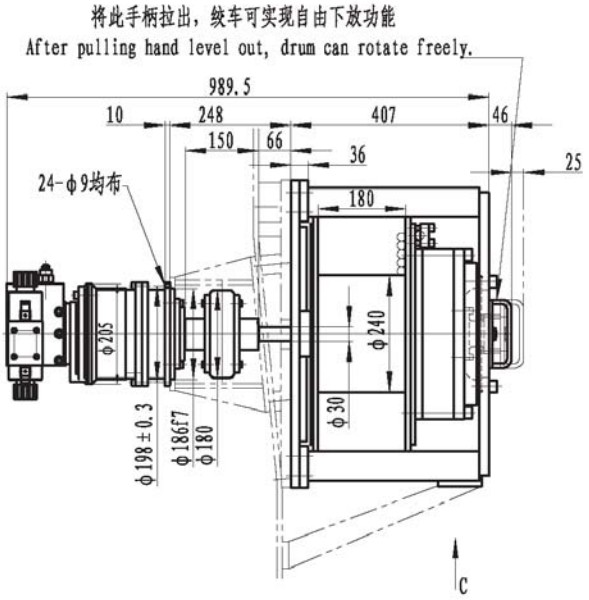
Main Specification

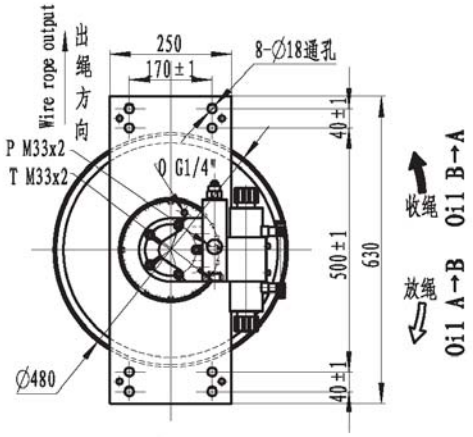
型号 Model	ISYJ333-90/45-63-16-ZPL				
第一层拉力 Pull on the 1st layer(kN)	90			45	
第一层绳速 Speed on the 1st layer(m/min)	20			40	
总排量(ml/r) Total displacement(ml/r)	4538.22			2269.11	
工作压差 Work pressure diff.(MPa)	20				
供油流量 Oil flow supply (L/min)	119				
钢丝绳直径 Rope diameter (mm)	16				
层数 layer	1	2	3	4	5
容绳量 Wire rope capacity (m)	10	21	34	48	63
液压马达型号 Hydraulic motor	IM86/43				
行星减速器型号 Gearbox model	IGC26 i=52.77				

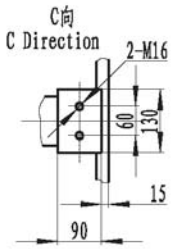
注：1.液压绞车不允许载人。
2.液压绞车工作过程中不可以开启离合器。

Note: 1. The winch is not designed for operation involving lifting or moving personnel.
2. 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.

2.54-100-46-17.5-ZPL





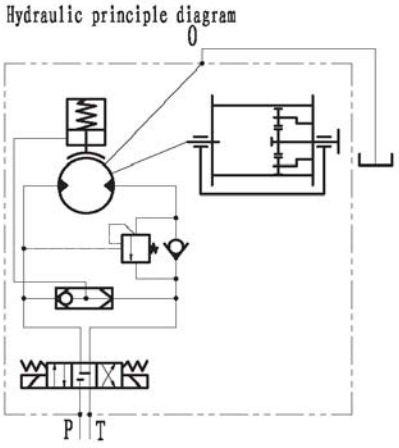


型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ2.54-100-46-17.5-ZPL	100	0~7	7248	13.5	70	17.5	1	7	INM05-150D47	KC2.54(i=48)	330
							2	15.5			
							3	24.5			
							4	35			
							5	46			

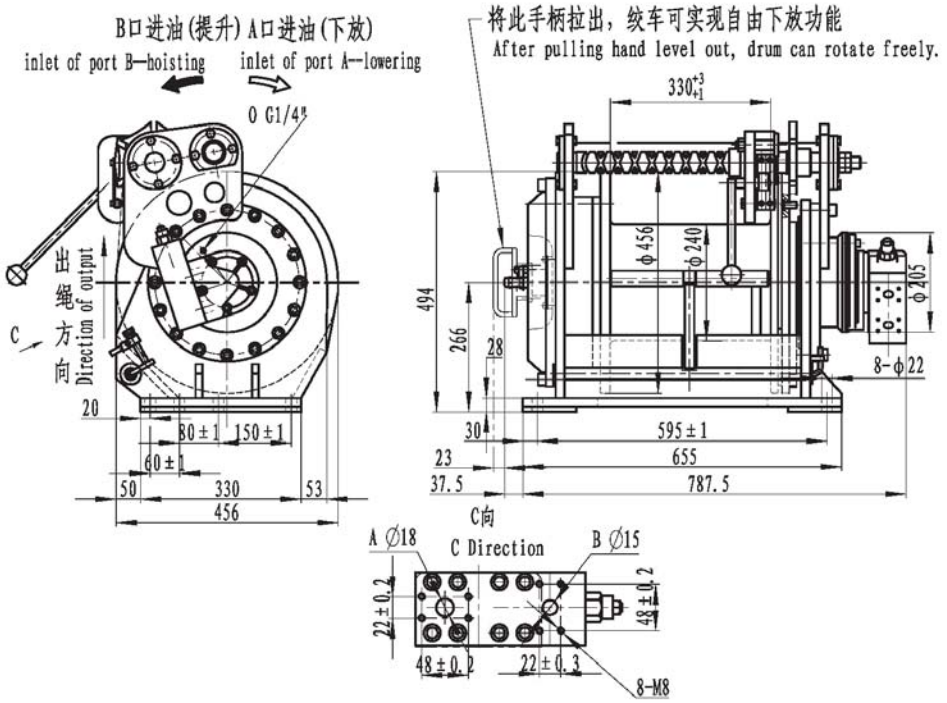
注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、绞车在受力情况下不可使用离合器；
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图
Hydraulic principle diagram



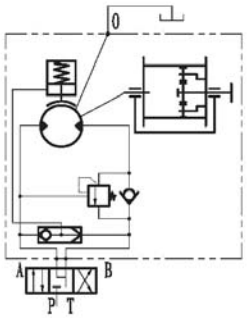
2.54-100-90-17.5-PL



型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
	拉力 Pull (KN)	绳速 Rope speed (m/min)									
ISYJ2.54-100-92-17.5-PL	100	0~7	7248	13.5	70	17.5	1	14.5	INM05-150D47	KC2.54(i=48)	340
							2	31			
							3	49.5			
							4	70			
							5	92			

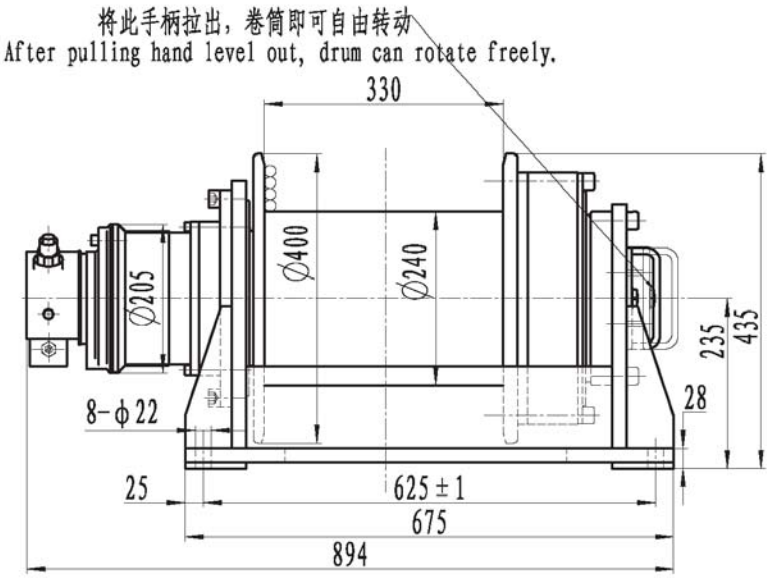
注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、绞车在受力情况下不可使用离合器；
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险.

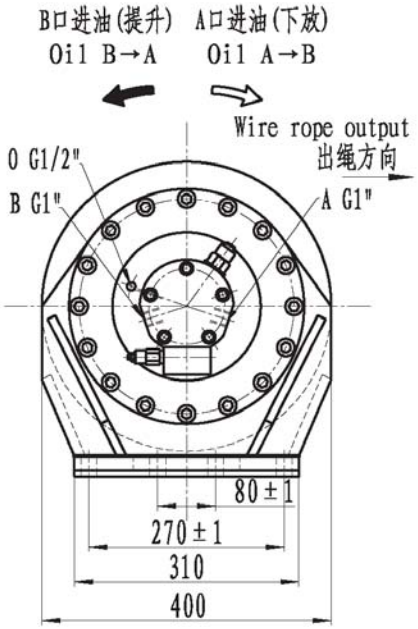
液压原理图
Hydraulic principle diagram



Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

2.54-100-76-16-ZPL





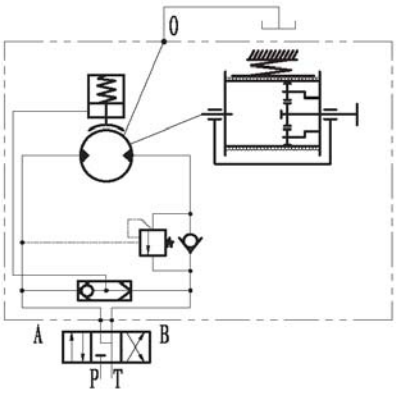
型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
	拉力 Pull (KN)	绳速 Rope speed (m/min)									
ISYJ2.54-100-73-16-ZPL	100	0~8.8	6192	17	75	16	1	16	INM05-130D51	KC2.54(i=48)	300
							2	34			
							3	54			
							4	76			

注意事项: 1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;
2、换向阀中位机能必须为“Y”型或“H”型;
3、液压绞车不允许载人;
4、绞车在受力情况下不可使用离合器;
5、离合器合上后必须将防脱出保护板挡住离合器手柄，以防绞车在工作过程中，离合器脱出，发生危险.

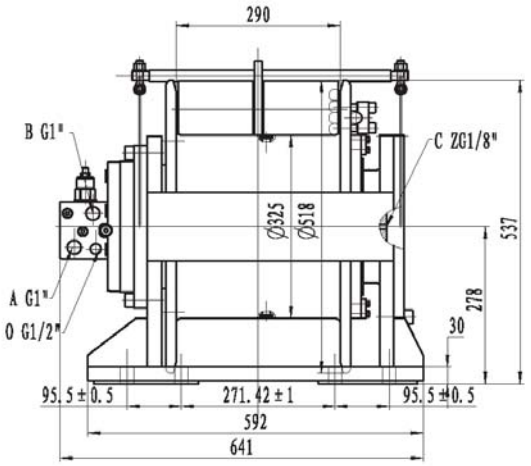
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

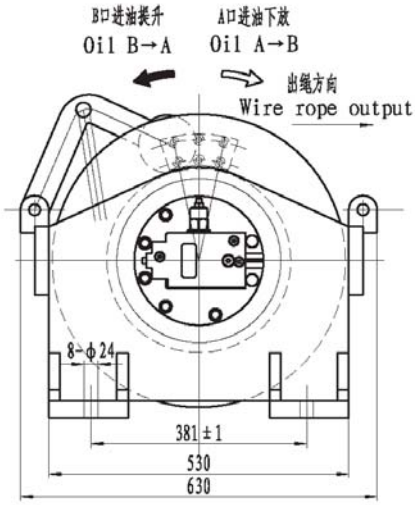
液压原理图

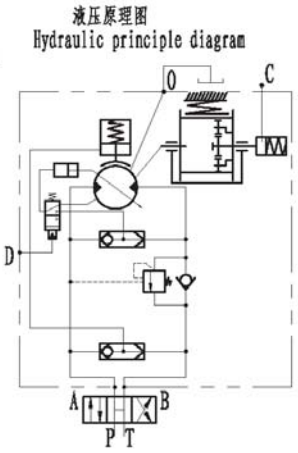
Hydraulic principle diagram



444-150/75-71-20-ZPL







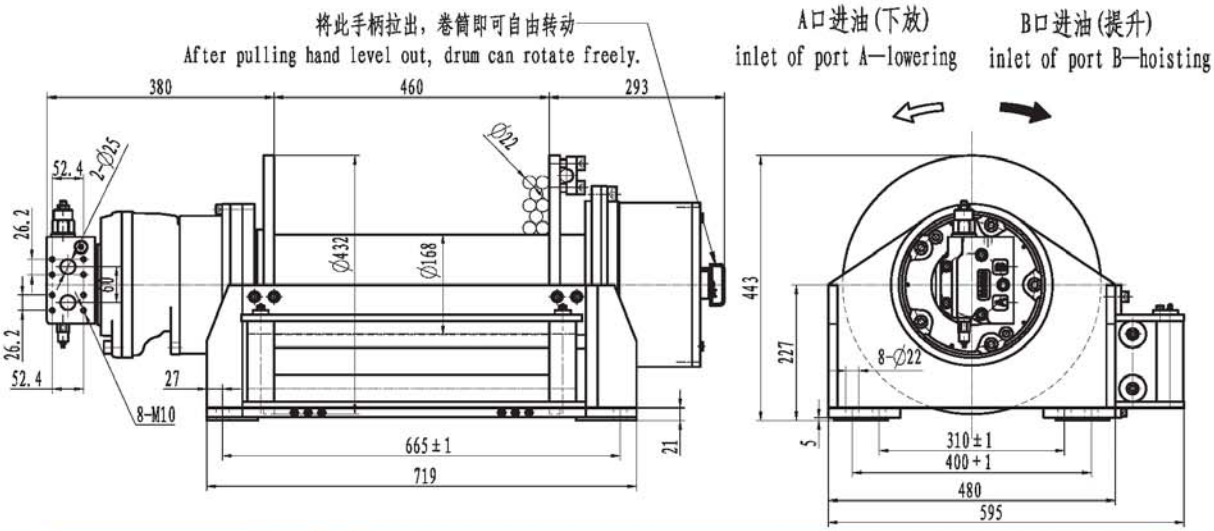
主要技术参数

Main Specification

型号 Model	ISYJ444-150/75-71-20-ZPL			
第一层拉力 Pull on the 1st layer(kN)	150		75	
第一层绳速 Speed on the 1st layer(m/min)	12.2		24.4	
总排量(ml/r) Total displacement(ml/r)	9560		4780	
工作压差 Work pressure diff. (MPa)	21			
供油流量 Oil flow supply (L/min)	120			
钢丝绳直径 Rope diameter (mm)	20			
层数 layer	1	2	3	4
容绳量 Wire rope capacity (m)	15	32	50	71
液压马达型号 Hydraulic motor	IM86/43			
行星减速器型号 Gearbox model	IGC36 i=111.2			

注：1.液压绞车不允许载人。
2.液压绞车工作过程中不可以开启离合器。

Note: 1. The winch is not designed for operation involving lifting or moving personnel.
2. 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.

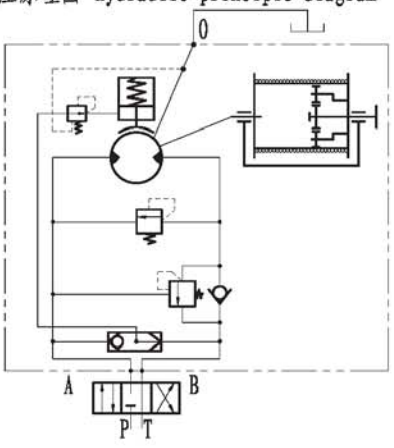


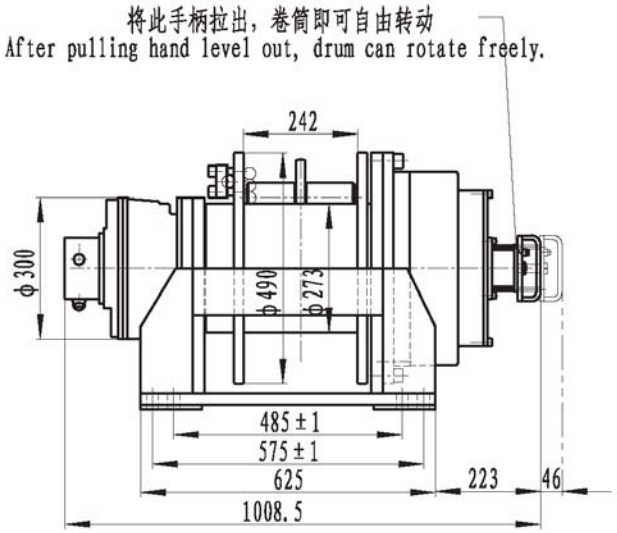
型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ33-120-101-18-ZPL	120	10.1	7047	12	130	18	1	14	INM1-250 D240111P	C023 (i=29)	200
							2	32			
							3	52			
							4	75			
							5	101			
ISYJ33-132-94-20-ZPL	132	10.2	7047	13	130	20	1	13	INM1-250 D240111P	C023 (i=29)	200
							2	30			
							3	49			
							4	71			
							5	94			
ISYJ33-150-94-20-ZPL	150	8.6	8410	13	130	20	1	13	INM1-300 D240111P	C023 (i=29)	200
							2	30			
							3	49			
							4	71			
							5	94			
ISYJ33-175-88-22-ZPL	175	8	9106	13.5	130	22	1	12	INM1-320 D240111P	C023 (i=29)	200
							2	27			
							3	44			
							4	64			
							5	88			

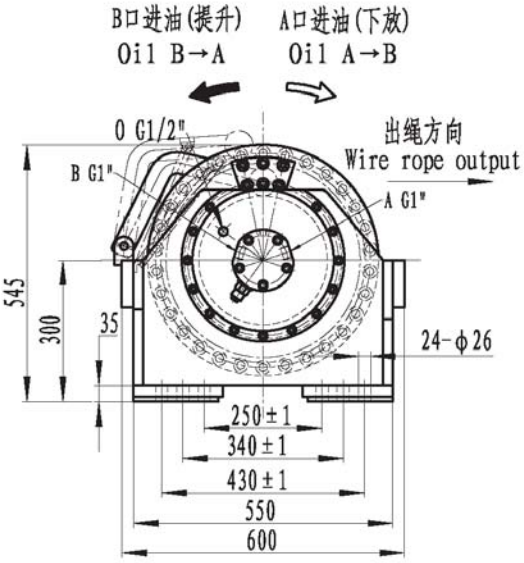
注意事项: 1、马达泄漏口O必须直接回液压油箱，不允许连接至三回油路;
2、换向阀中位机能必须为“Y”型或“H”型;
3、液压绞车不允许载人;
4、绞车在受力情况下不可使用离合器;
5、离合器合上后必须将防脱出保护板挡住离合器手柄，以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图 Hydraulic principle diagram







型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ45-150-35-22-ZPL	150	0~6	11173.4	15.2	80	22	1 2 3	10 21.5 35	INM2-350D51	C45(i=32.2)	450
ISYJ45-200-32-24-ZPL	200	0~6	13685	16.6	98	24	1 2 3	9 20 32	INM2-420D240101	C45(i=32.2)	450
ISYJ45-250-29-26-ZPL	250	0~6	18193	15.5	124	26	1 2 3	8 18 29	INM2-600D240101	C45(i=32.2)	450
ISYJ45-300-28-28-ZPL	300	0~6	20060.6	16.9	135	28	1 2 3	8 17 28	INM2-630D240101	C45(i=32.2)	450

注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
3、液压绞车不允许载人；
4、绞车在受力情况下不可使用离合器；
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
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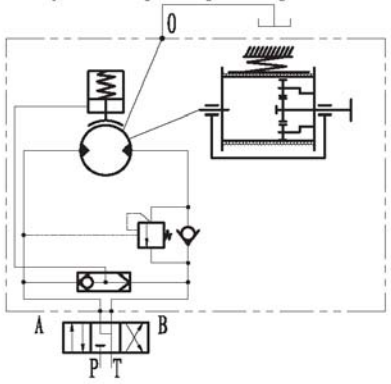
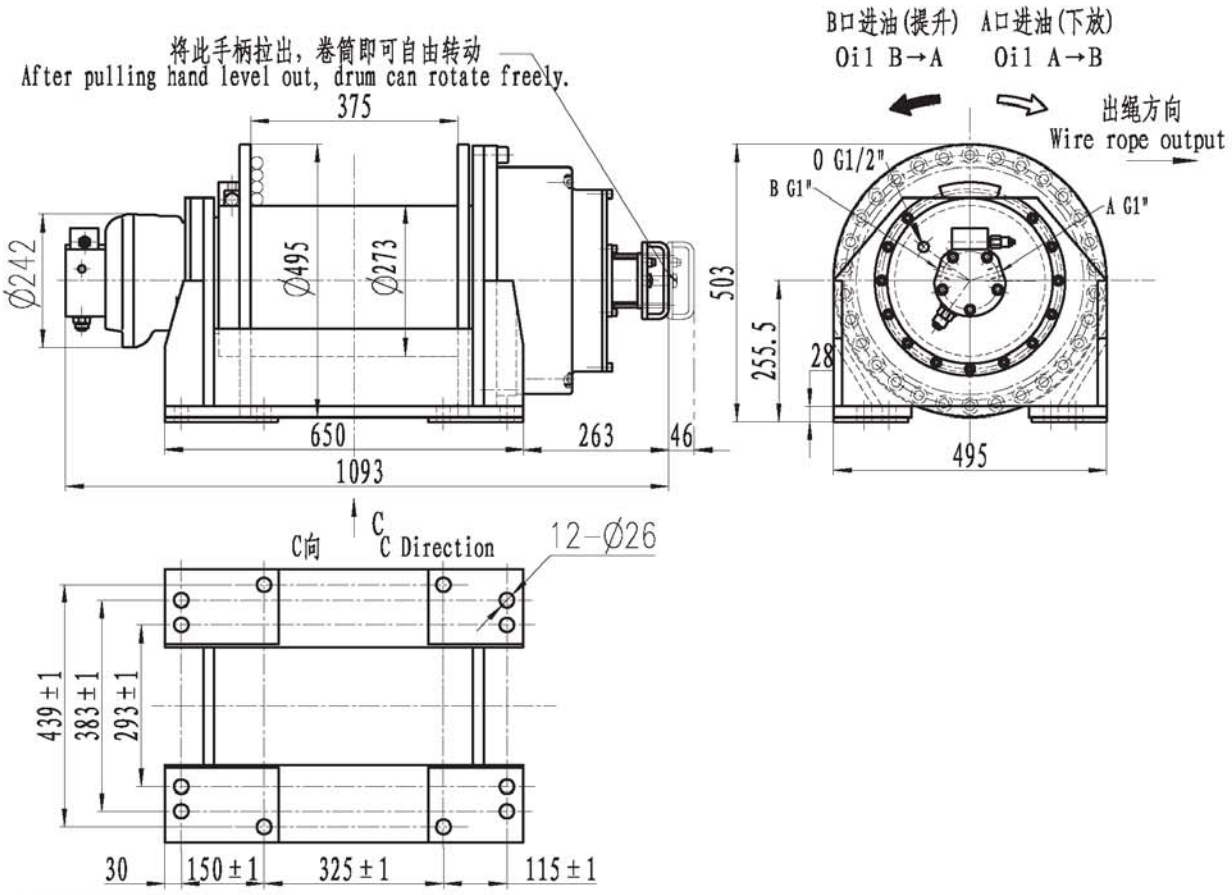
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图
Hydraulic principle diagram



45-200-77-22-ZPL



型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ45-200-77-22-ZPL	200	0~6	10948	21	82	22	1 2 3 4	15 33 54 77	INM1-350D51	C45(i=32.2)	400

注意事项: 1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;
2、换向阀中位机能必须为 "Y" 型或 "H" 型;
3、液压绞车不允许载人;
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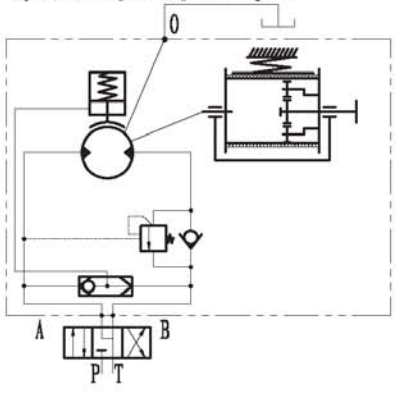
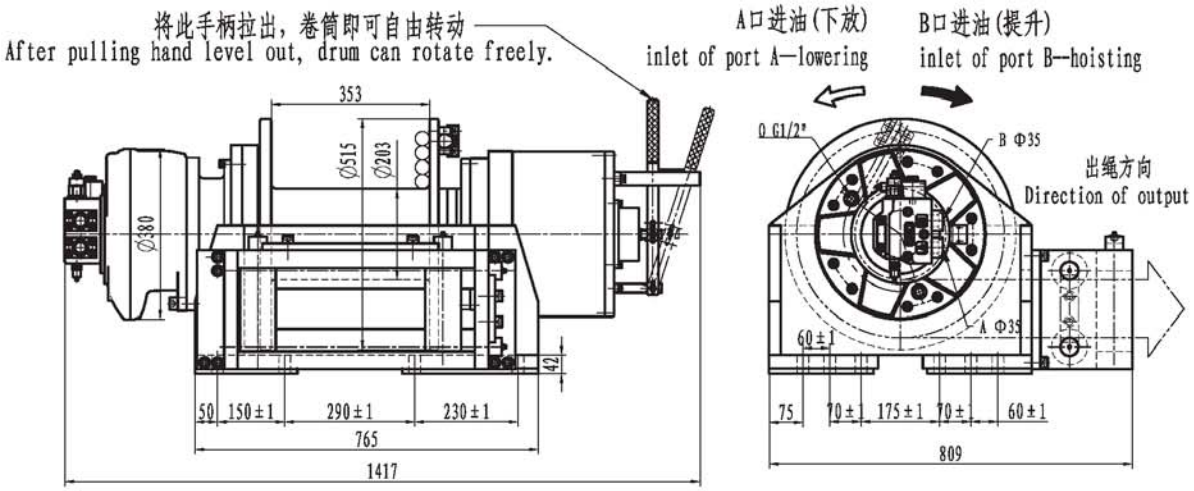
液压原理图 Hydraulic principle diagram



4.54.5-350-44-32-ZPL



型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
	拉力 Pull (KN)	绳速 Rope speed (m/min)									
ISYJ4.54.5-200-44-32-ZPL	200	9.4	14292.66	12.5	198	32	1	8	INM3-700 D240111P	C04.54.5 (i=20.71)	800
							2	18			
							3	31			
							4	44			
ISYJ4.54.5-250-44-32-ZPL	250	9.4	14292.66	15.5	198	32	1	8	INM3-700 D240111P	C04.54.5 (i=20.71)	800
							2	18			
							3	31			
							4	44			
ISYJ4.54.5-300-44-32-ZPL	300	7.6	18083.6	14.6	198	32	1	8	INM3-900 D240111P	C04.54.5 (i=20.71)	800
							2	18			
							3	31			
							4	44			
ISYJ4.54.5-350-44-32-ZPL	350	7.6	18083.6	17	198	32	1	8	INM3-900 D240111P	C04.54.5 (i=20.71)	800
							2	18			
							3	31			
							4	44			

注意事项：1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路；
2、换向阀中位机能必须为“Y”型或“H”型；
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Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
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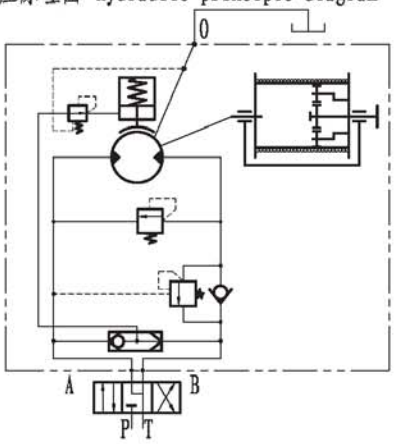
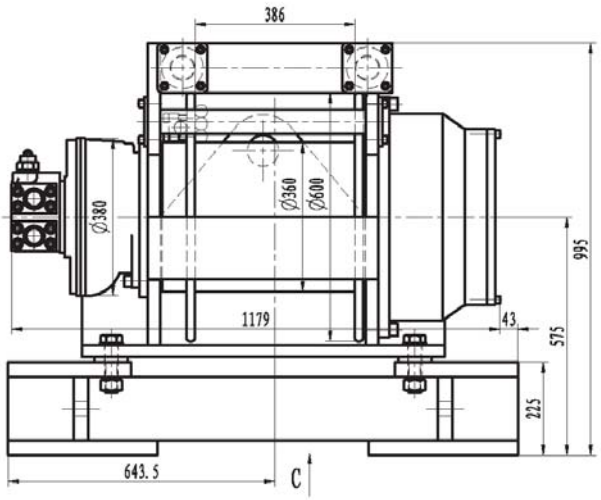
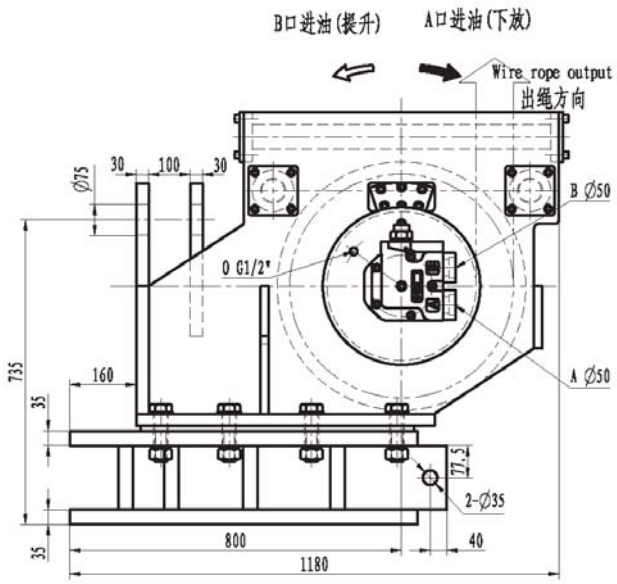
液压原理图 Hydraulic principle diagram

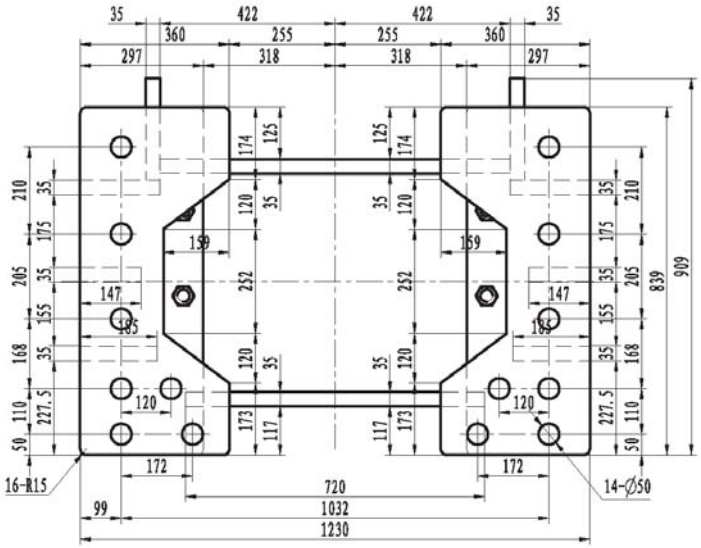


56-300-50-30-ZP





C direction



注意事项:

1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;

2、换向阀中位机能必须为“Y”型或“H”型;

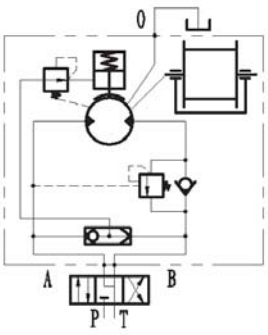
3、液压绞车不允许载人。

Note:

1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.

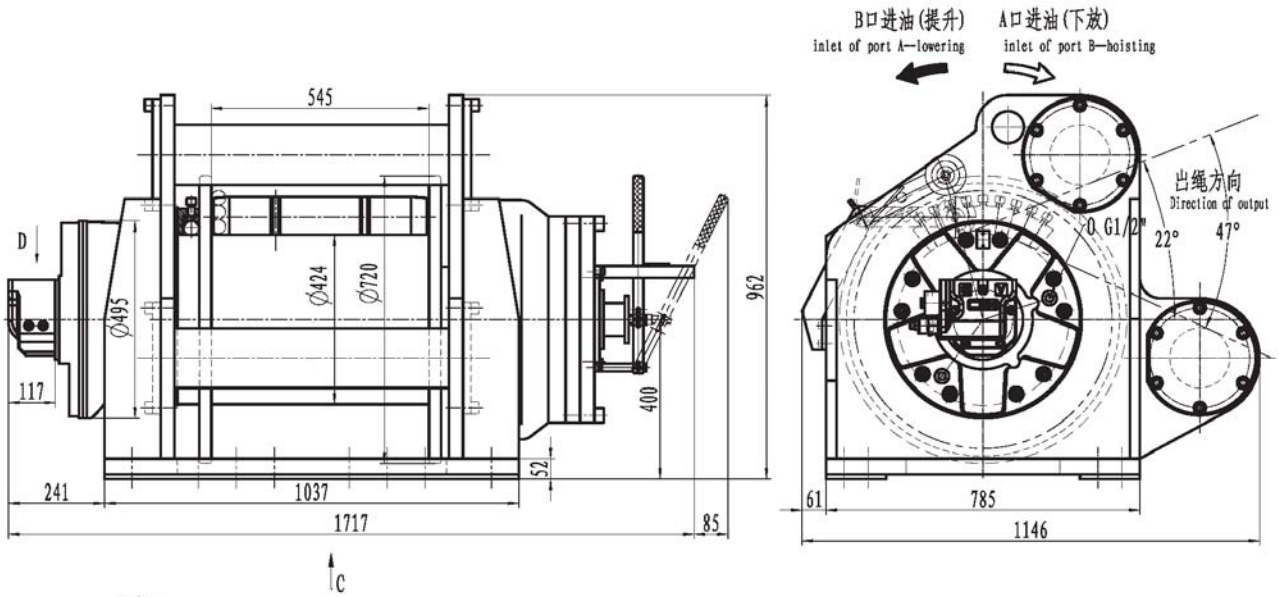
液压原理图

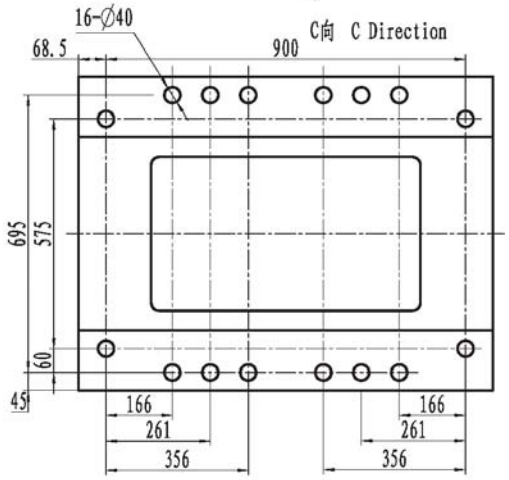
Hydraulic principle diagram

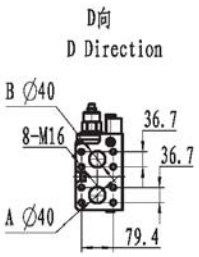


型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 oil flow supply (L)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope Capacity (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model
	拉力 Pull (KN)	绳速 Rope speed (m/min)								
ISYJ56-300-50-30-ZP	300	0~14	27636	17	300	30	3	50	INM3-1000D480101	C56(i=48)

67-500-70-36-ZPL





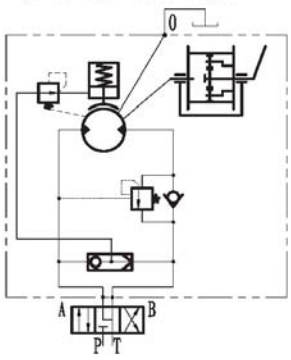


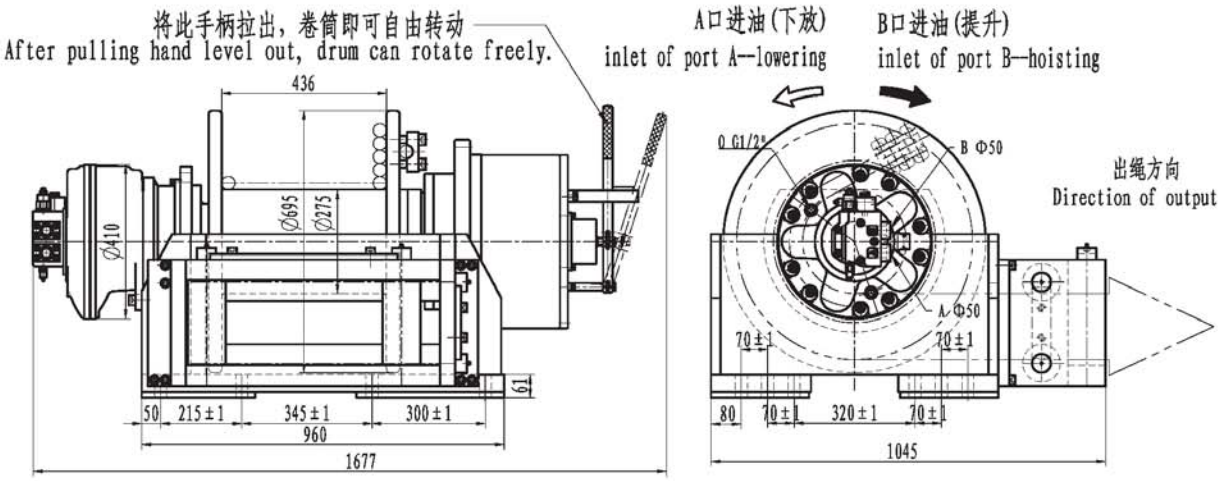
注意事项:
1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;
2、换向阀中位机能必须为“Y”型或“H”型;
3、液压绞车不允许载人。

Note:
1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.

型 号 Model	第一层 The 1st layer		总排量 Total displacement (ml/r)	工作压差 Working pressure diff. (MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model
	拉力 Pull (KN)	绳速 Rope speed (m/min)								
ISYJ67-400-70-33-ZPL	400	0~8	45752	16	283	33	3	70	INM5-1600D480101P	C67(i=28)
ISYJ67-500-70-36-ZPL	500	0~8	56196	15.5	330	36	3	70	INM5-2000D480101P	C67(i=28)

液压原理图
Hydraulic principle diagram



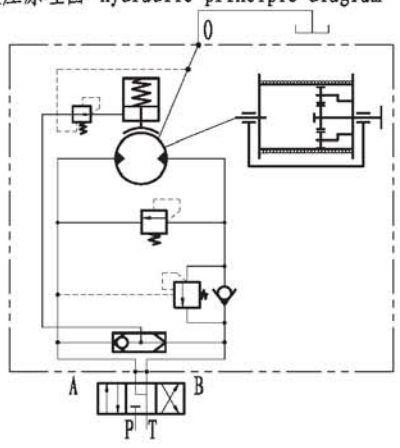


型 号 Model	第一层 The 1st layer 拉力 Pull (KN)	第一层 The 1st layer 绳速 Rope speed (m/min)	总排量 Total displacement (ml/r)	工作压差 Working pressure diff.(MPa)	供油流量 Supply oil flow (L)	钢丝绳直径 Diameter of rope (mm)	层数 Layer	容绳量 Capacity of rope (m)	液压马达 Hydraulic motor	行星减速器 Gearbox model	重量 Weight (kg)
ISYJ5.55.5-400-90-32-ZPL	400	6.2	32252.4	13.5	207	32	1	12	INM4-1100 D480111P	C05.55.5 (i=28.9)	950
							2	28			
							3	45			
							4	66			
							5	90			
ISYJ5.55.5-450-90-32-ZPL	450	5.2	38032.4	13	207	32	1	12	INM4-1300 D480111P	C05.55.5 (i=28.9)	950
							2	28			
							3	45			
							4	66			
							5	90			
ISYJ5.55.5-500-85-35-ZPL	500	5.2	38032.4	14.5	207	35	1	11	INM4-1300 D480111P	C05.55.5 (i=28.9)	950
							2	26			
							3	43			
							4	62			
							5	85			
ISYJ5.55.5-600-59-38-ZPL	600	5.2	38032.4	18	207	38	1	11	INM4-1300 D480111P	C05.55.5 (i=28.9)	950
							2	24			
							3	40			
							4	59			

注意事项: 1、马达泄漏口O必须直接回液压油箱，不允许连接至主回油路;
2、换向阀中位机能必须为“Y”型或“H”型;
3、液压绞车不允许载人;
4、绞车在受力情况下不可使用离合器;
5、离合器合上后必须将防脱出保护板挡住离合器手柄，
以防绞车在工作过程中，离合器脱出，发生危险.

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. do not use clutch when a force exerts on drum of the winch.
5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.

液压原理图 Hydraulic principle diagram

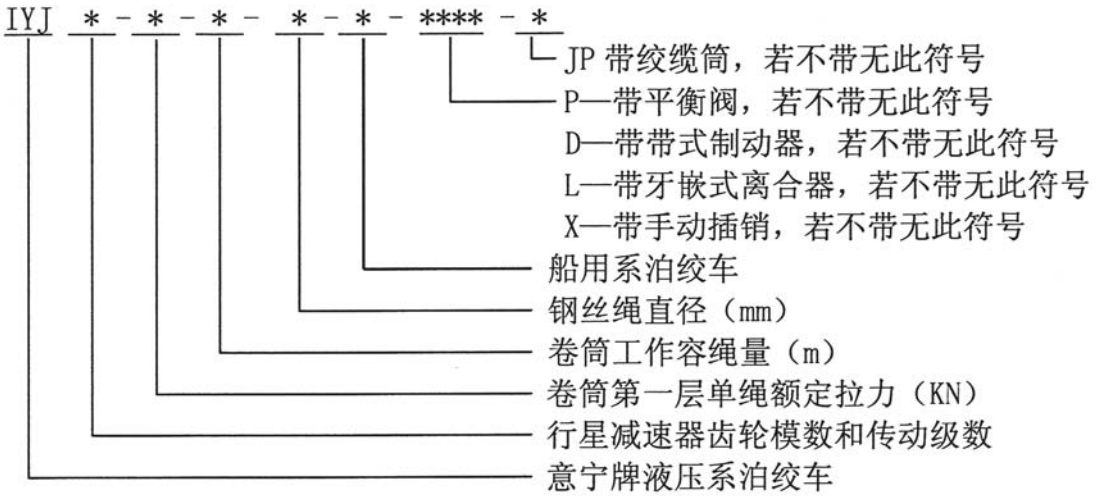


● IYJ---C 系列液压系泊绞车

1、概述：

IYJ---C 系列液压系泊绞车是本公司的专利产品，由具有制动和过载保护功能的阀组，液压马达、行星减速器、带式制动器、牙嵌式离合器、卷筒、绞缆筒和机架等部件组成。由于绞车自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性。该系列绞车可带张力阀组，此时系泊缆绳具有恒张力功能，除此，它还具有起动和工作时效率高，与传统的开式齿轮传动的系泊绞车相比，IYJ-C系列系泊绞车由于采用闭式行星减速器替代开式齿轮，用滚动轴承替代铜瓦滑动轴承，使其传动总效率提高了 6～10%，具有明显节能效果。由于上述改进使它具有外形尺寸更紧凑、美观，噪音低，无需日常润滑维护，经济性好等特点。本产品性能符合 GB4446-84 船用系泊绞车国家标准。该产品已在国内船舶行业广泛应用，并已出口到马来西亚、荷兰、澳大利亚等国家。

2、型号说明：



3、型号举例：

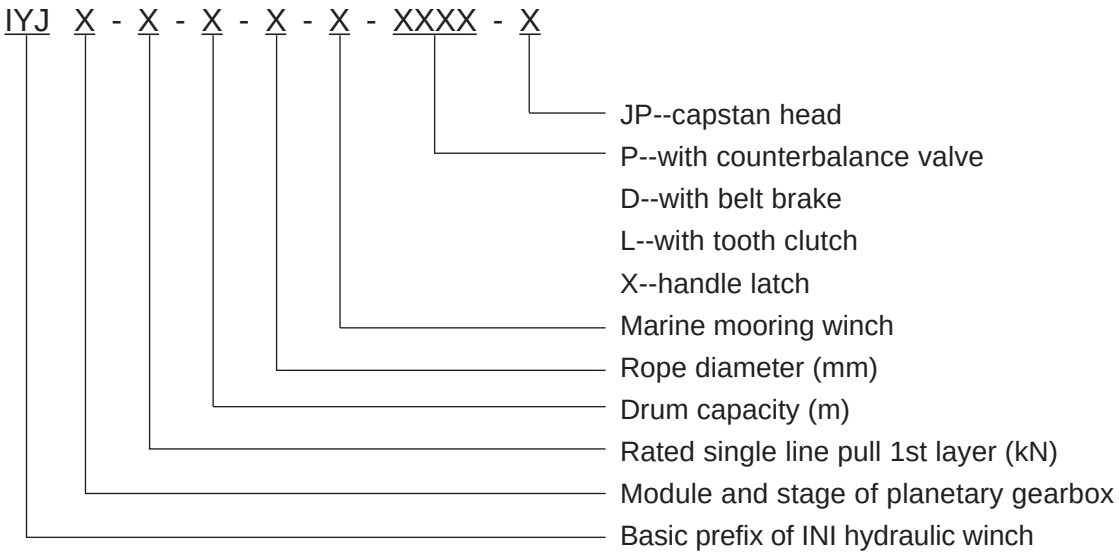
IYJ45-80-180-26-C-PDLX-JP 表示此绞车的行星减速器为双级行星减速器，第一级齿轮模数为 4，第二级齿轮模数为 5，钢丝绳的第一层额定拉力为 80KN,卷筒工作容绳量为 180m,钢丝绳直径为 26mm,此绞车带单向平衡阀、带带式制动器、牙嵌式离合器、手动插销及绞缆筒。

IYJ-—C Hydraulic Mooring Winch Series

1. Brief Introduction

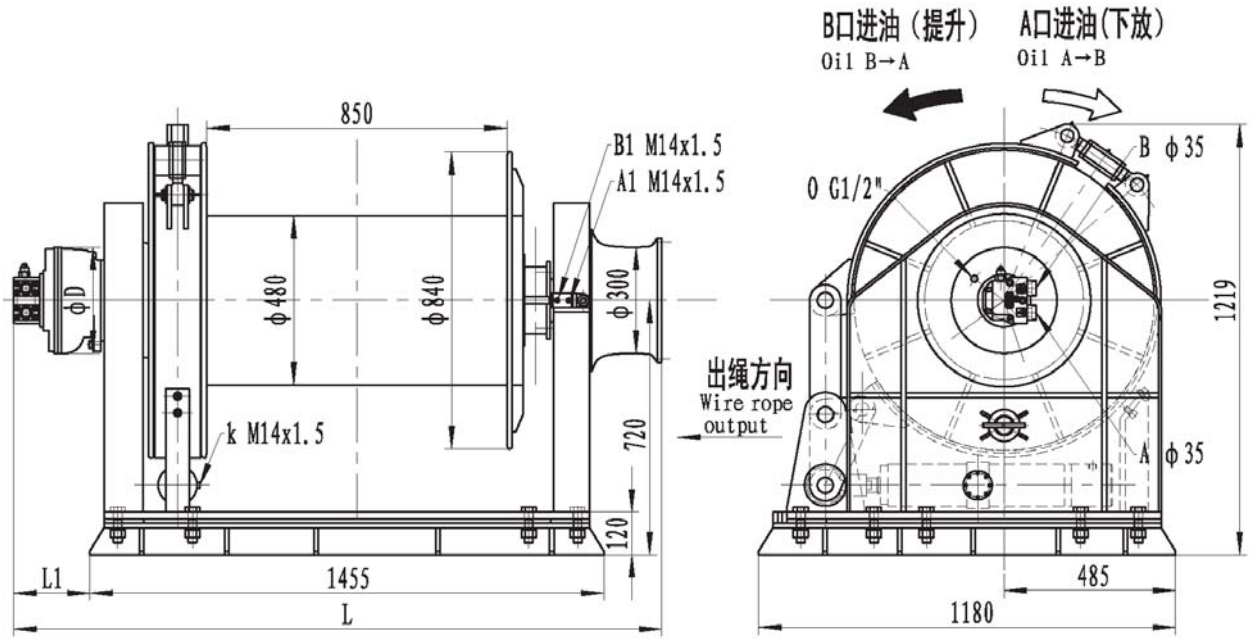
IYJ—-C hydraulic mooring winch series are patent products of our company. They consist of valve blocks with function of brake and overload protection, hydraulic motor, planetary gearbox, belt brake, tooth clutch, drum, capstan head, frame and so on. Due to fit with valve block, not only simplified the 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



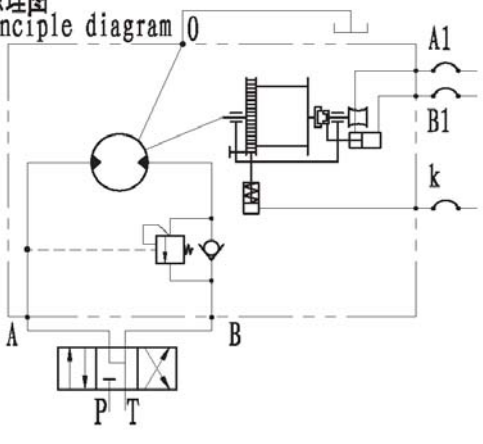
3. Options Example

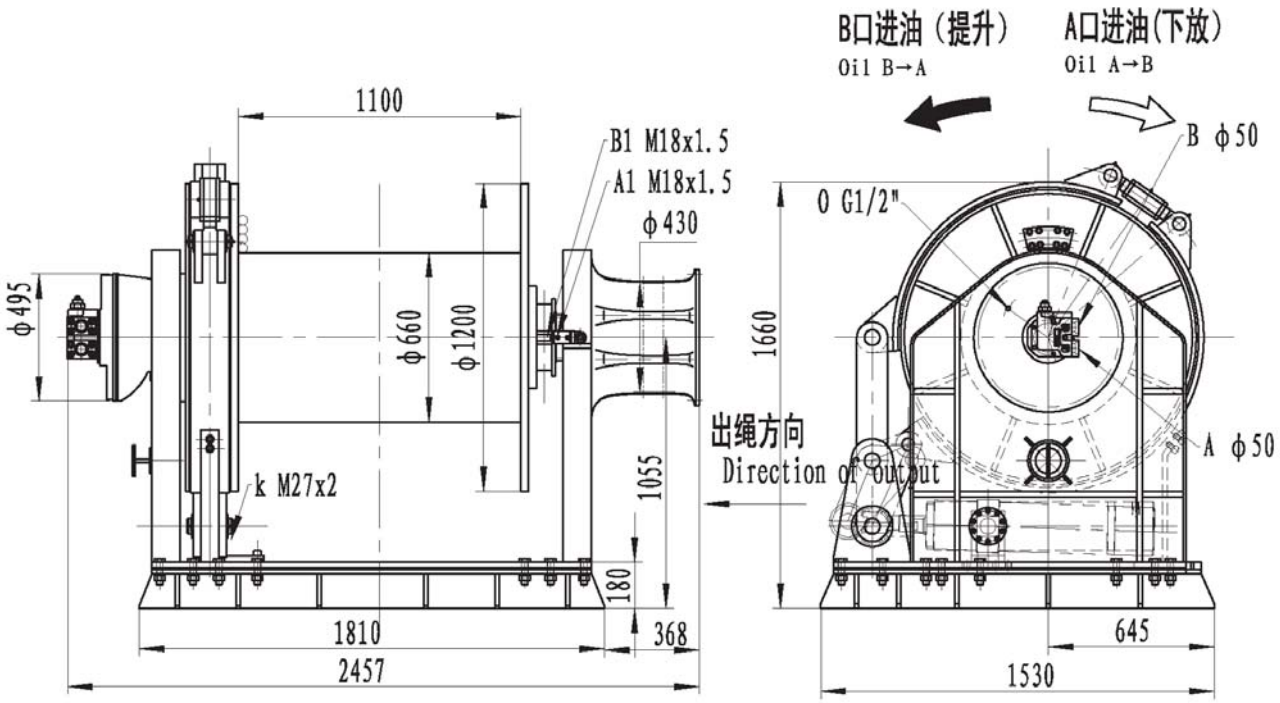
IYJ45-80-180-26-C-PDLX-JP represents that the module of two stages planetary gearbox are 4 and 5 respectively, rated pulling force on 1st layer is 80kN, drum capacity is 180m, rope diameter is 26mm, and the winch fits with belt brake, counterbalance valve, and tooth clutch, handle latch and capstan head.



型号 Modle	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 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (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

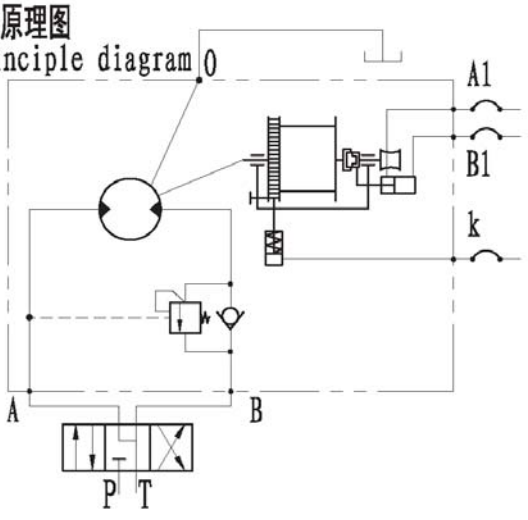
液压原理图
Hydraulic principle diagram

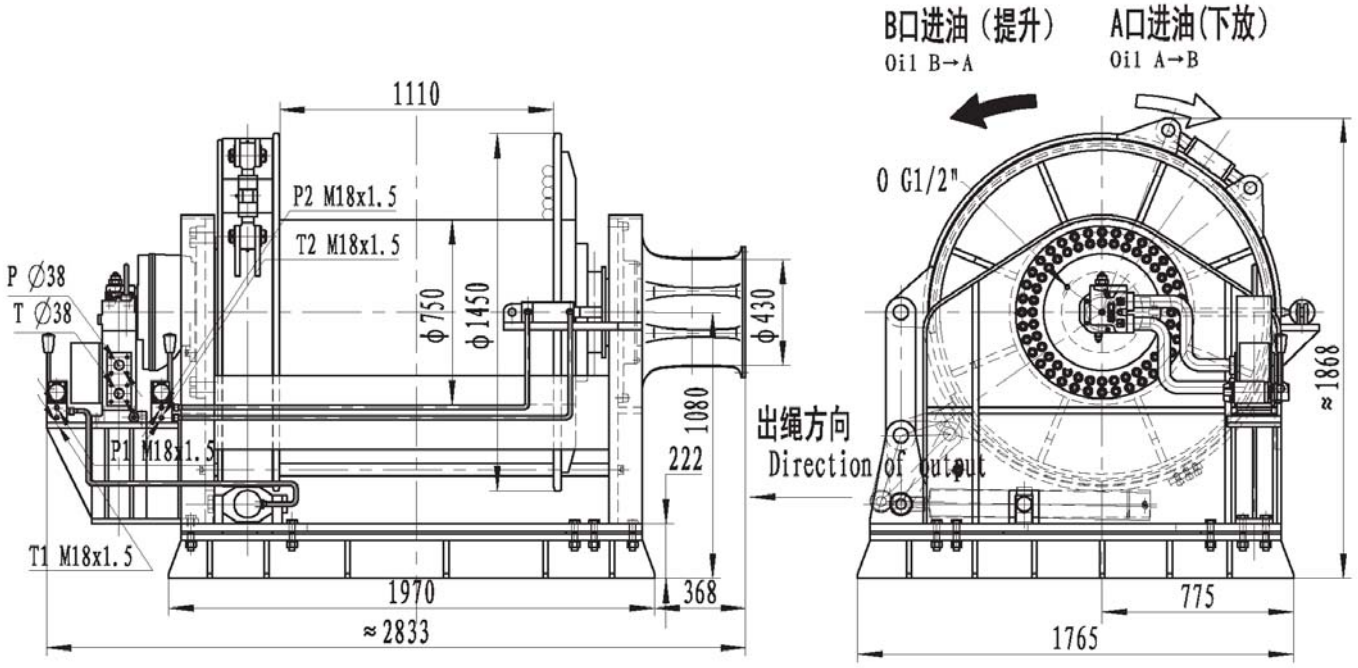




型号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ56-160-330-32-C-PDLX-JP	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

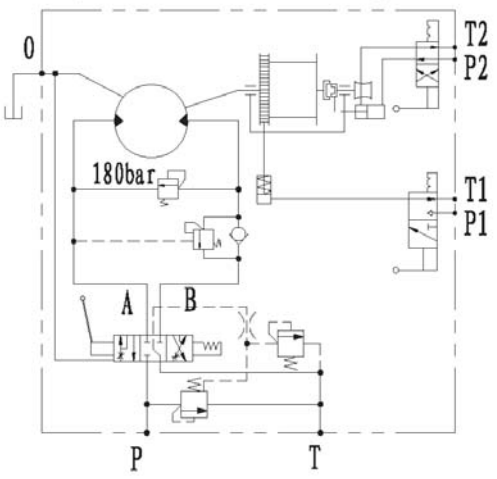
液压原理图
Hydraulic principle diagram

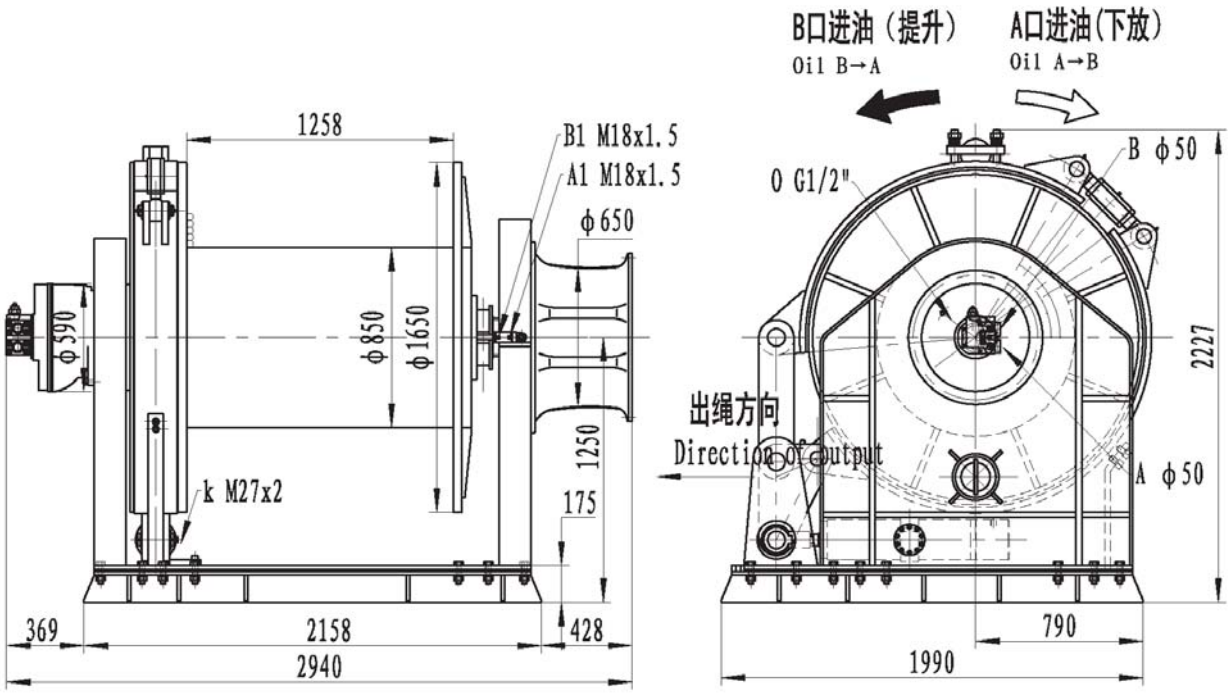




型号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ67-220-400-38-C-PDLX-JP	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

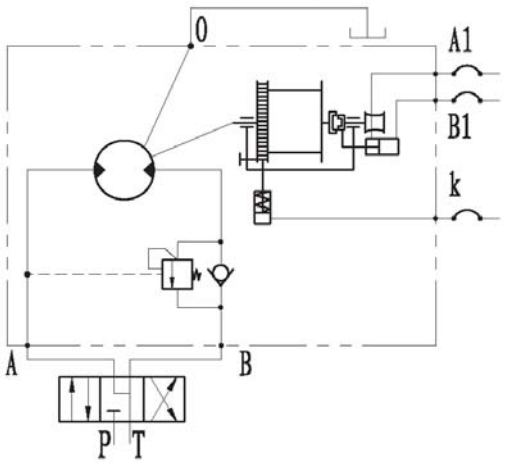
液压原理图
Hydraulic principle diagram



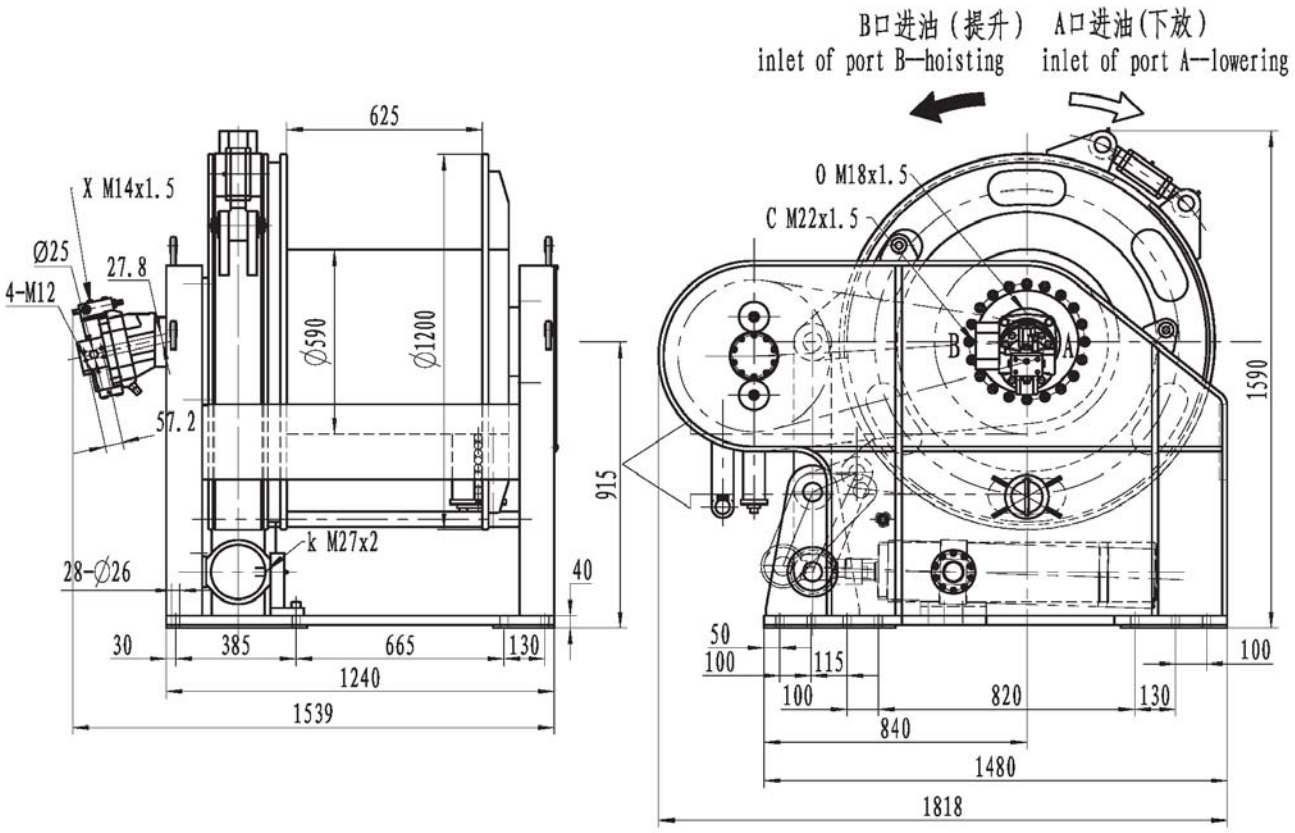


型 号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ79-315-330-46-C-PDLX-JP	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

液压原理图
Hydraulic principle diagram



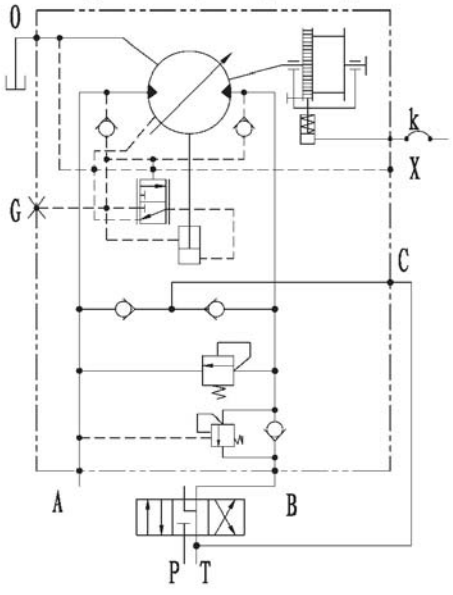
34.54.5-100/50-500-24-C-PDX



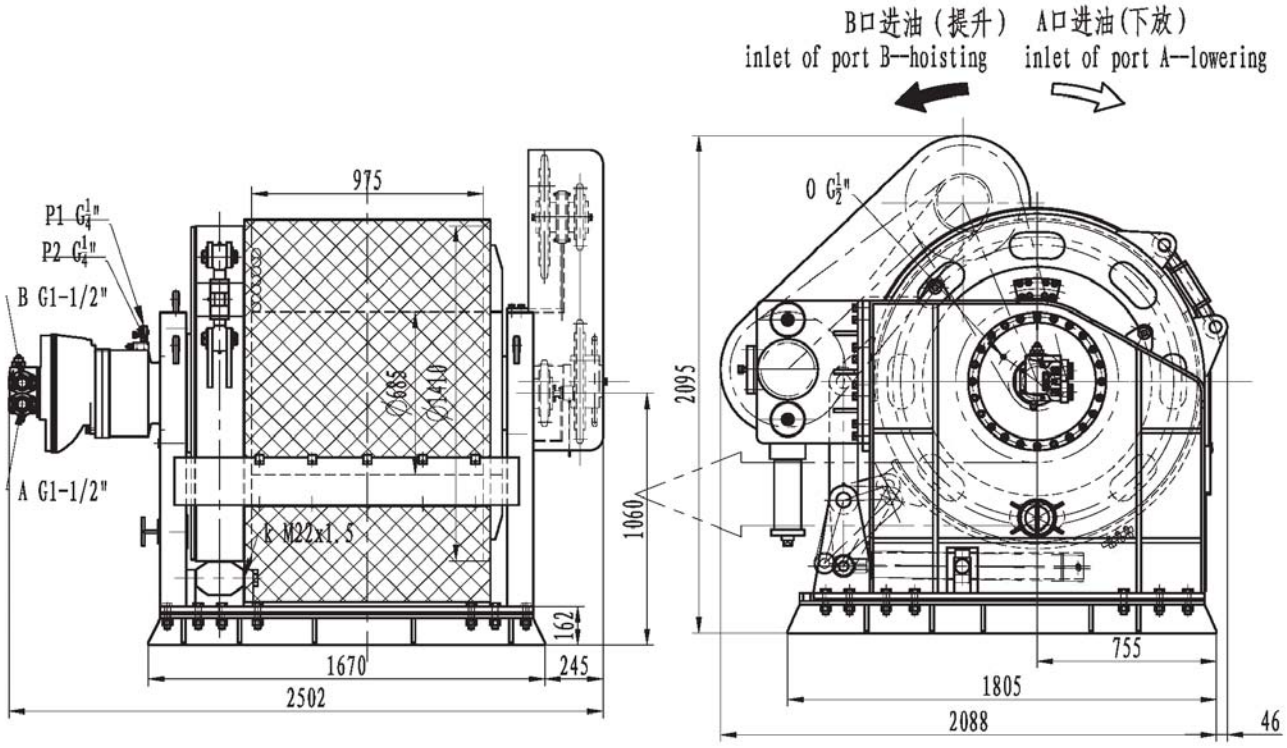
主要技术参数
Main Specification

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)
液压马达型号	Hydraulic motor type	A6V107HD22FZ2-054
行星减速器型号	Planetary gearbox type	IGT60W3-B95-A6V107 (i=94.8)

液压原理图
Hydraulic principle diagram



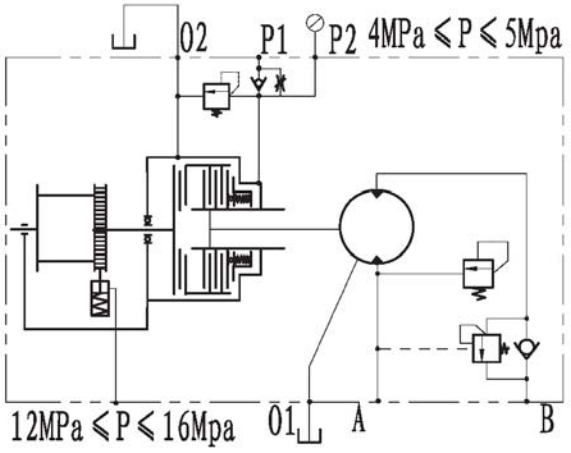
56-200-500-38-C-PDLX



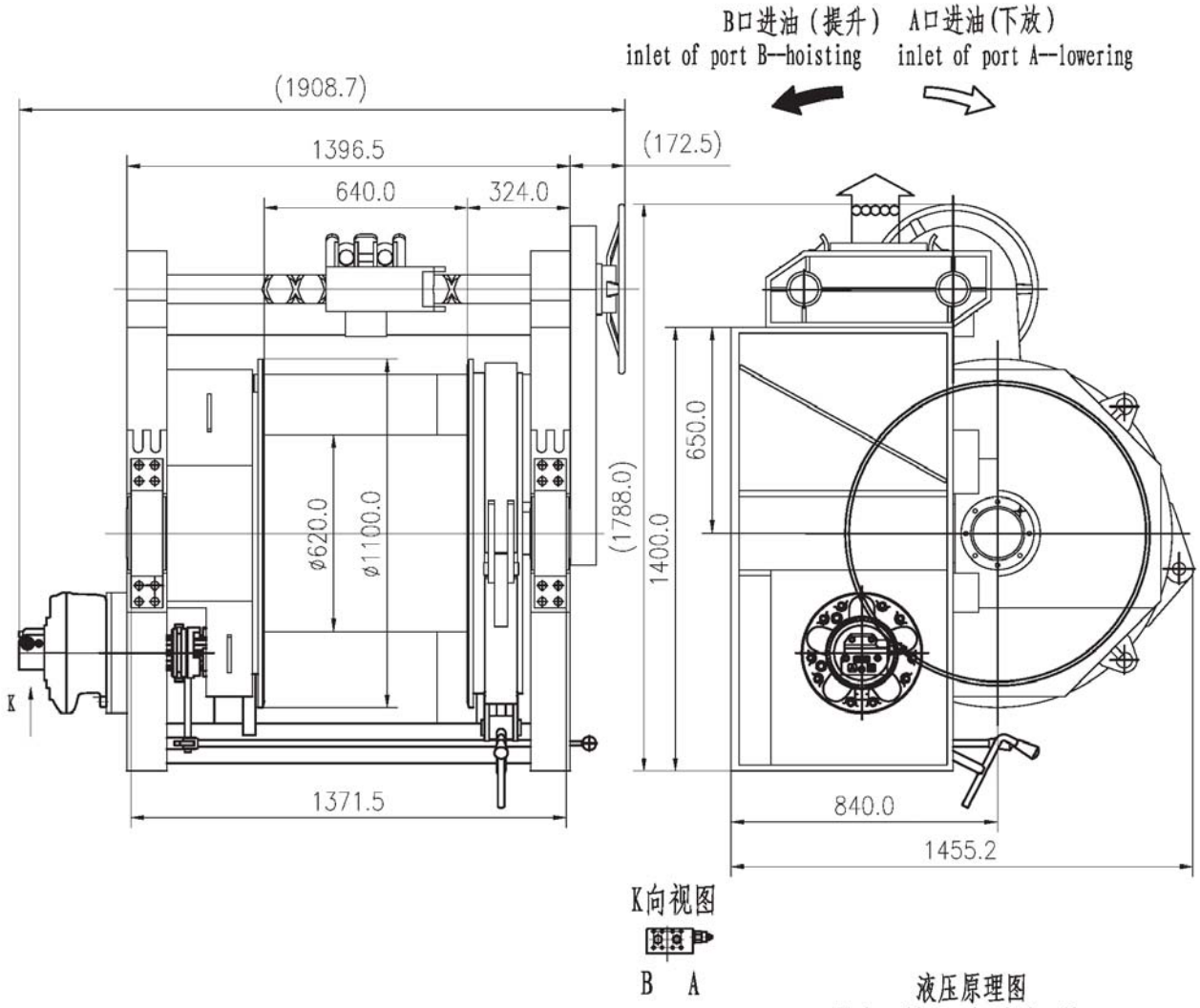
主要技术参数
Main Specification

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(η v=0.94)
液压马达型号	Hydraulic motor type	INM5-1450D48011
行星减速器型号	Planetary gearbox type	C56(i=28)

液压原理图
Hydraulic principle diagram



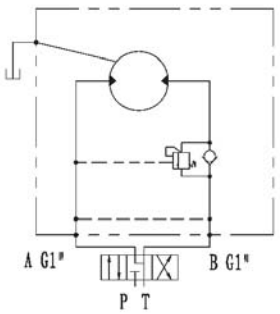
IYJ K12-150-250-30-C-PDL



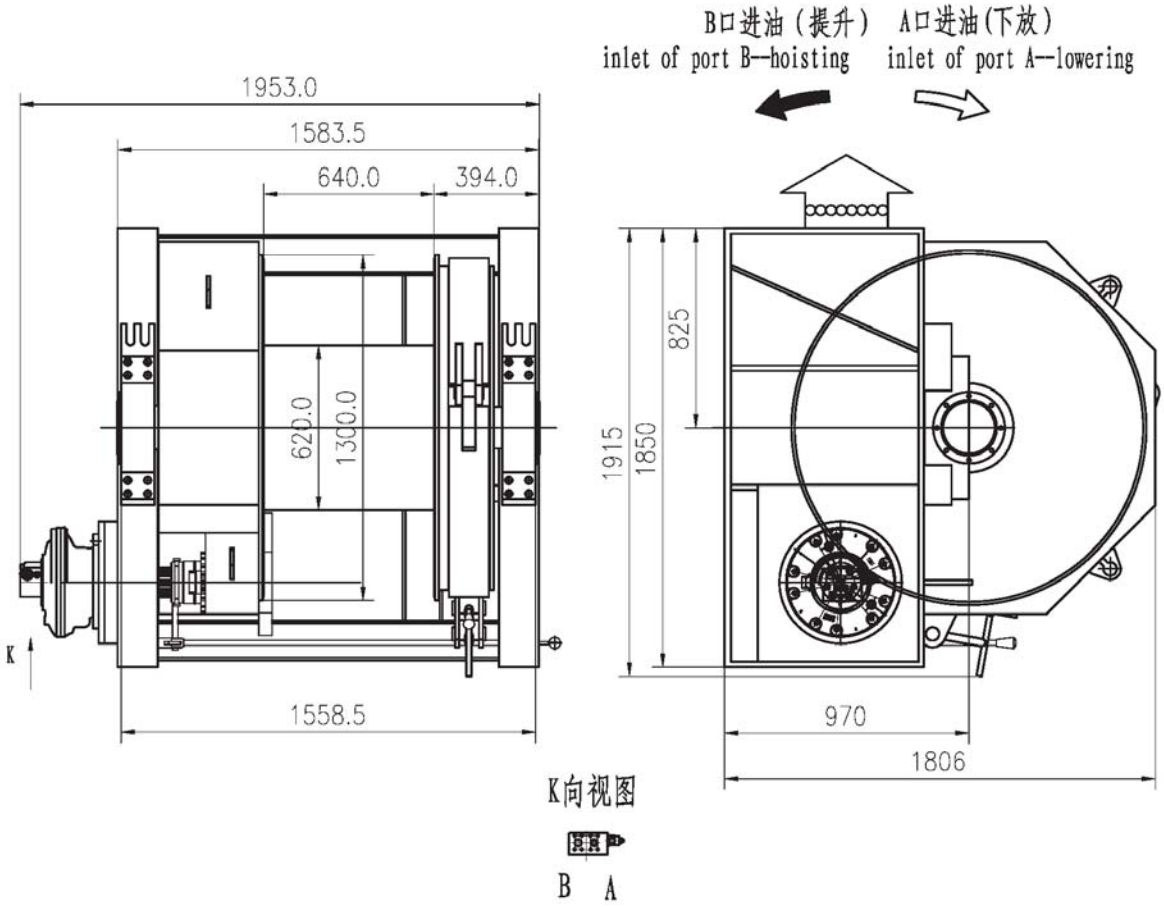
绞车主要技术参数
Winch main Specification

第三层拉力	Rated working pull 3rd layer(kN)	150
第六层绳速	Speed 6th layer(m/min)	10
支撑负载	Drum Brake Holding(T)	30T
总排量	Drum displacement(mL/r)	22000
系统压力	System rated pressure(MPa)	20
钢丝绳直径	Diameter of rope(mm)	30
层数	Number of rope layers	5
容绳量	Capability of drum(m)	250
供油流量	Pump flow(L/min)	122(η v=0.9)
液压马达型号	Hydraulic motor type	INM3-600D2401

液压原理图
Hydraulic principle diagram



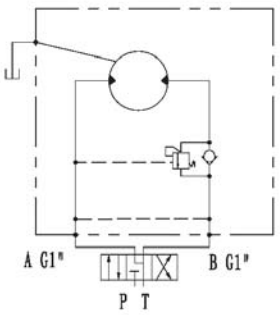
IYJ K12-250-350-38-C-PDL



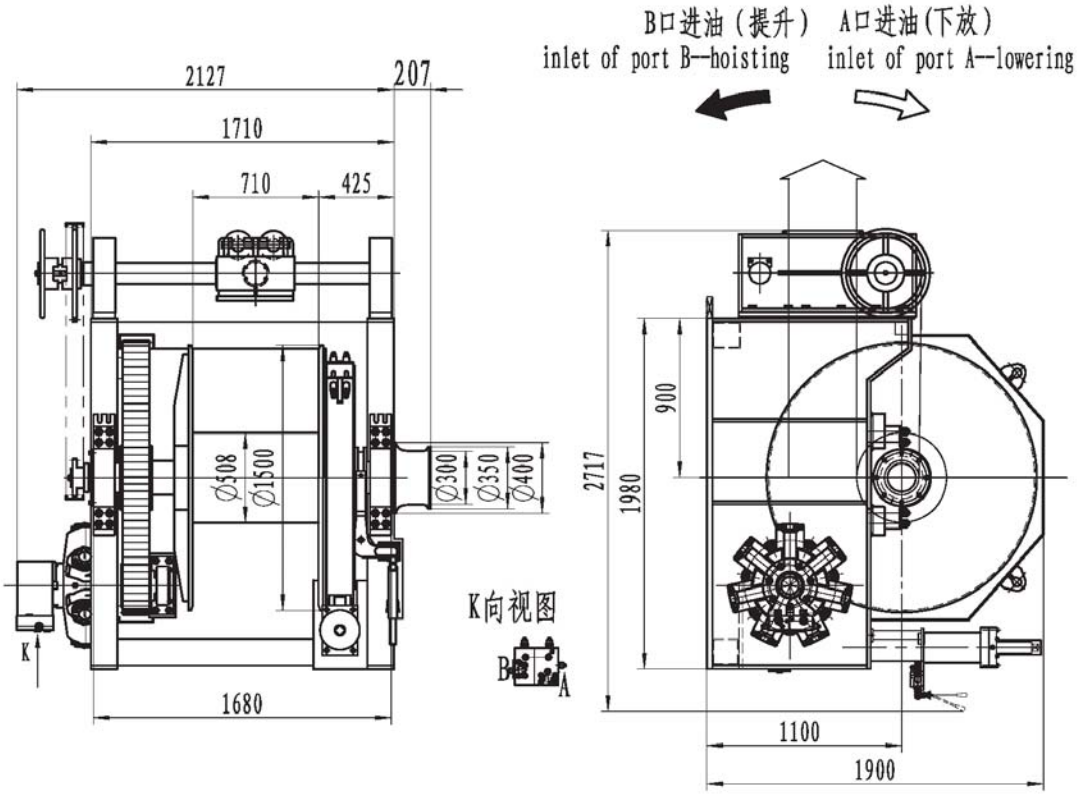
绞车主要技术参数
Winch main Specification

第一层拉力	Rated working pull 1st layer(kN)	250
第一层绳速	Speed 1st layer(m/min)	10
支撑负载	Drum Brake Holding(KN)	500 AT 1st Layer,Static
总排量	Drum displacement(mL/r)	40800
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)	350
供油流量	Pump flow(L/min)	203(η v=0.9)
液压马达型号	Hydraulic motor type	INM3-800D2401

液压原理图
Hydraulic principle diagram



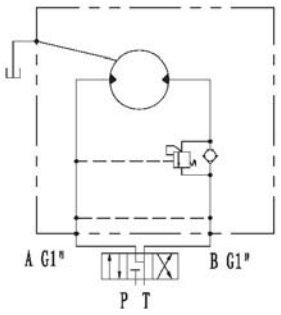
IYJ K12-300-800-30-C-PDL



绞盘主要技术参数
Capstan main Specification

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

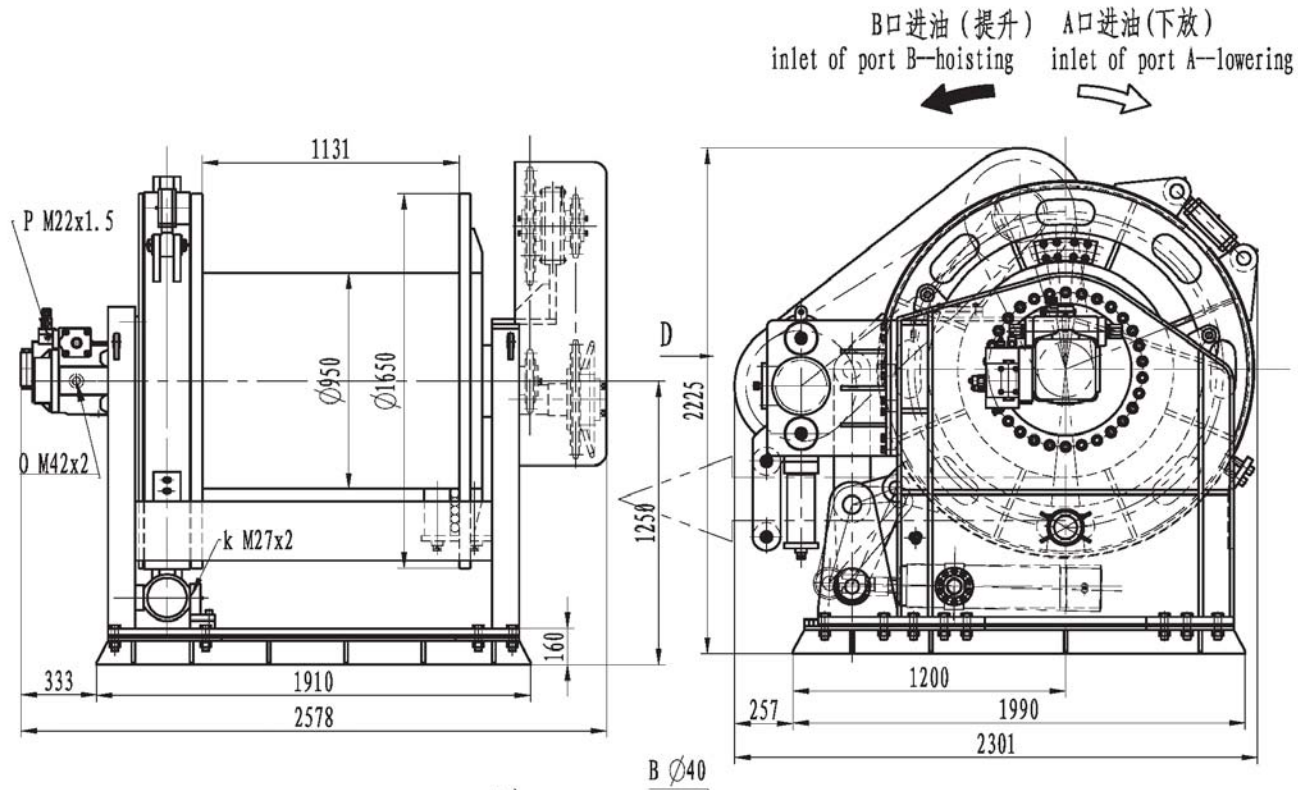
液压原理图
Hydraulic principle diagram

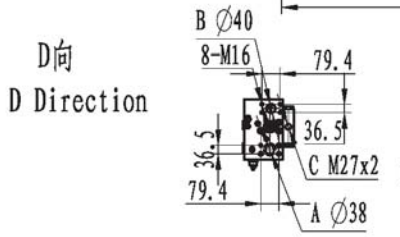


绞车主要技术参数
Winch main Specification

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(η v=0.9)
液压马达型号	Hydraulic motor type	IMB325-5000-S1

699-350/140-500-38-ZPGSDXB

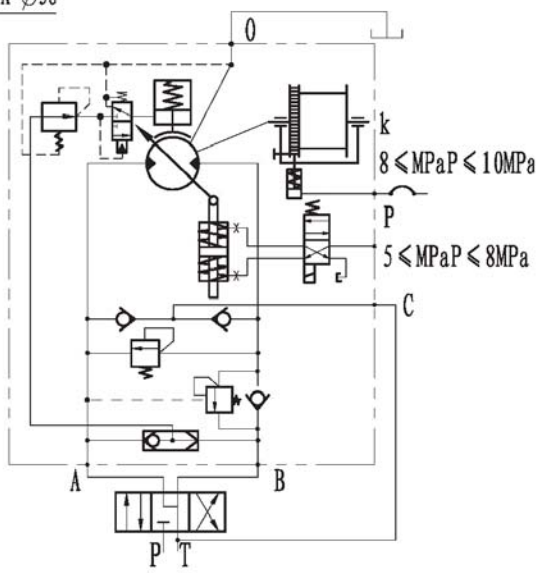


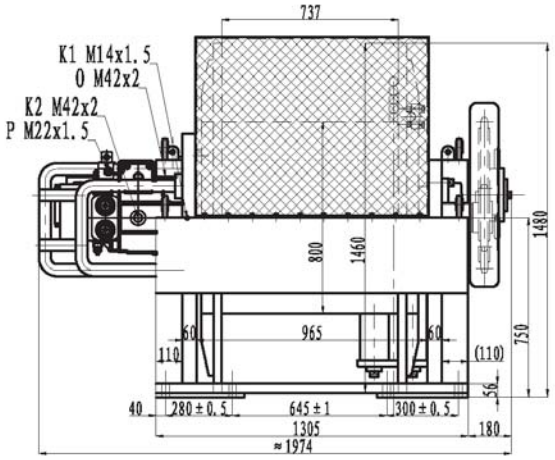


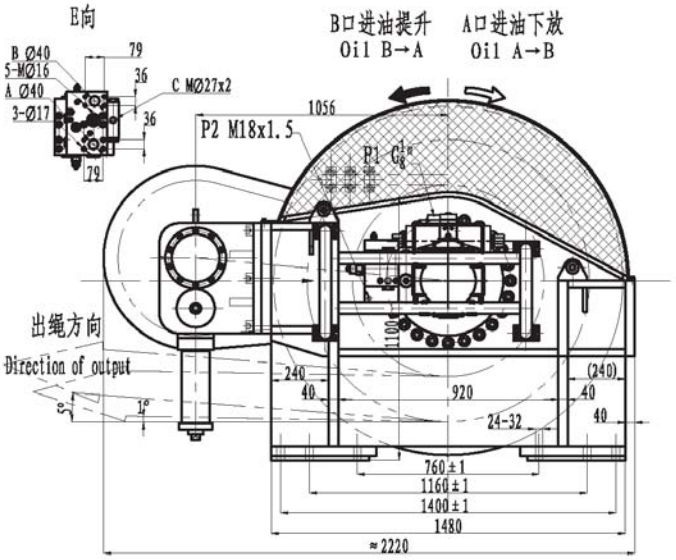
主要技术参数
Main Specification

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
容绳量	Capability of drum(m)	500
供油流量	Pump flow(L/min)	162(η 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)

液压原理图
Hydraulic principle diagram



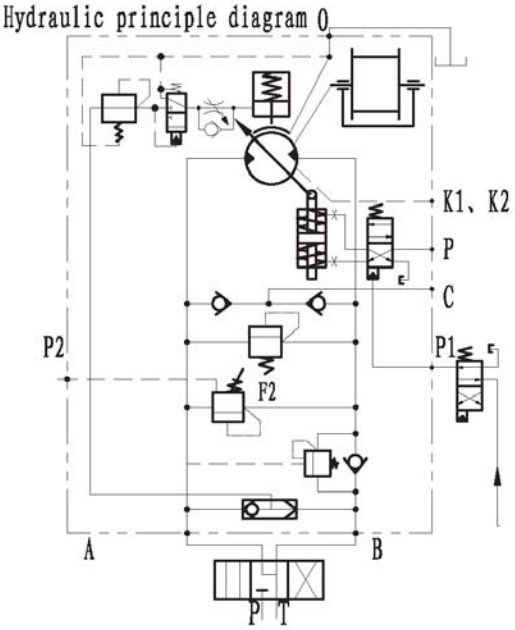




主要技术参数
Main Specification

型号 Modle	IYJ488-500-250-38-ZPGF	
第一层拉力 Rated Line pull on first layer (kN)	400	200
第一层绳速 Line speed on first layer(m/min)	12.2	24.4
总排量 Drum displacement(mL/r)	62750	31375
液压马达排量 Hydraulic motor displacement(ml/r)	250	125
第一层最大拉力 Max. Line pull on first layer (kN)	500	
系统额定压力System rated pressure(MPa)	24	
系统最大压力 System max. pressure(MPa)	30	
钢丝绳直径 Diameter of rope(mm)	38~38.38	
层数 Number of rope layers	5	
容绳量 Capability of drum(m)	250	
供油流量 Flow(L/min)	324(ηv=0.9)	
液压马达型号 Hydraulic motor	HLA4VSM250DY30WVZB10N00	
行星减速器型号 Planetary gearbox type	IGC220W3-B251-A4V250-F720111P1(i=251)	

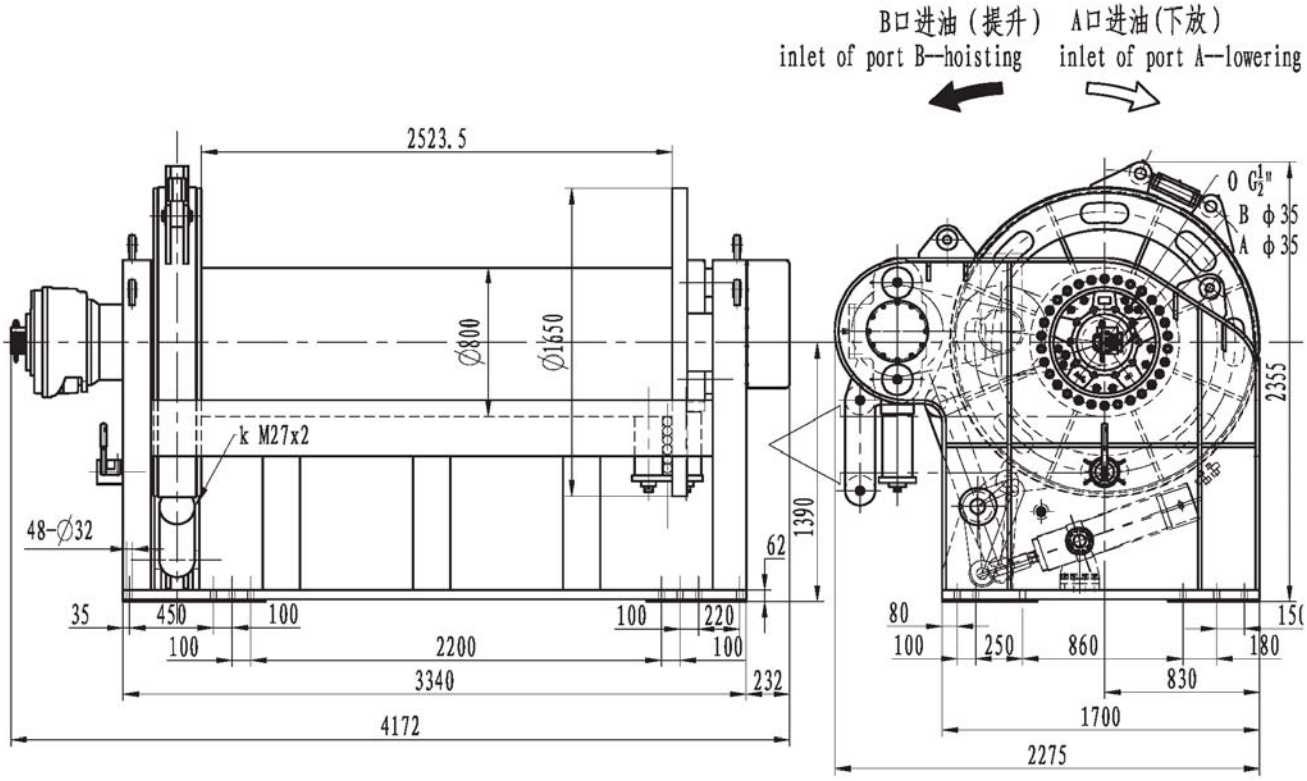
液压原理图
Hydraulic principle diagram 0



注: 1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

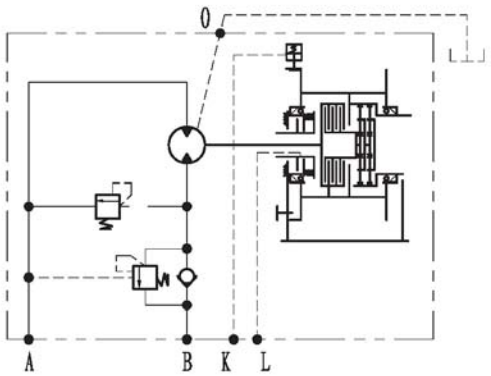
99-600-1000-50-C-PDLX



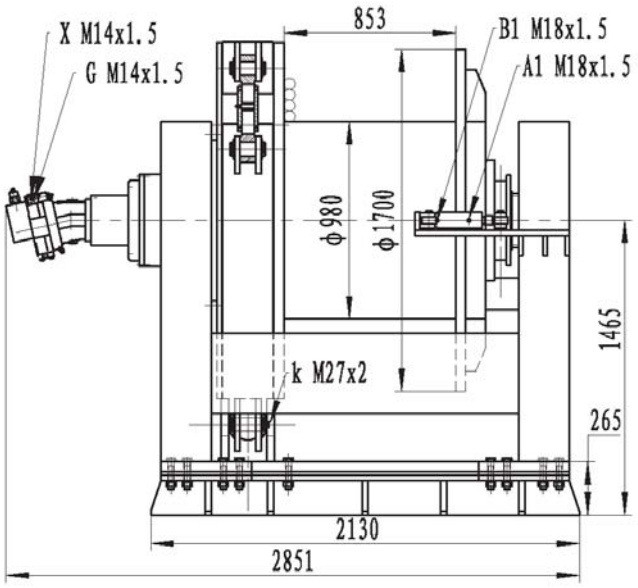
主要技术参数
Main Specification

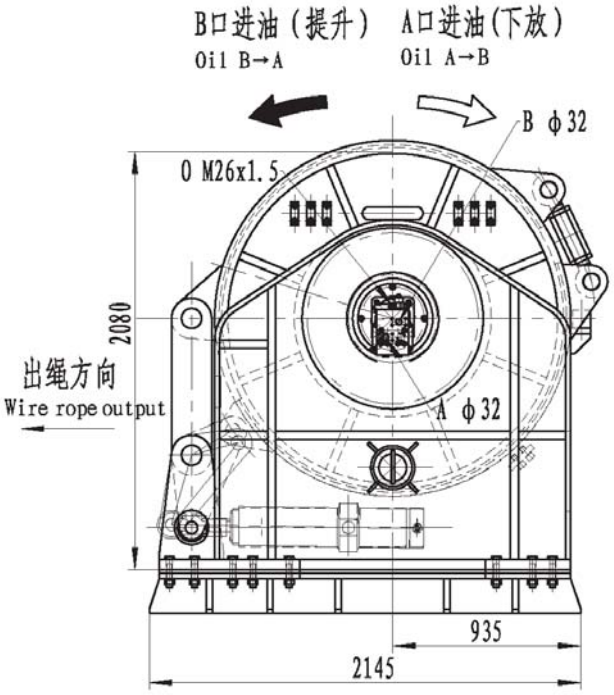
第一层拉力	Rated working pull 1st layer(kN)	600
支持负载	Brake support load(KN)	900
第四层绳速	Speed fouth layer(m/min)	5
总排量	Drum displacement(mL/r)	90744.43
系统压力	System rated pressure(MPa)	22
钢丝绳直径	Diameter of rope(mm)	50^{+1}_{0}
层数	Number of rope layers	6
容绳量	Capability of drum(m)	1000
供油流量	Pump flow(L/min)	139(η v=0.9)
液压马达型号	Hydraulic motor type	INM7-3600D24011
行星减速器型号	Planetary gearbox type	IGC330W2-B25-INM7(i=25.13)

液压原理图
Hydraulic principle diagram



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

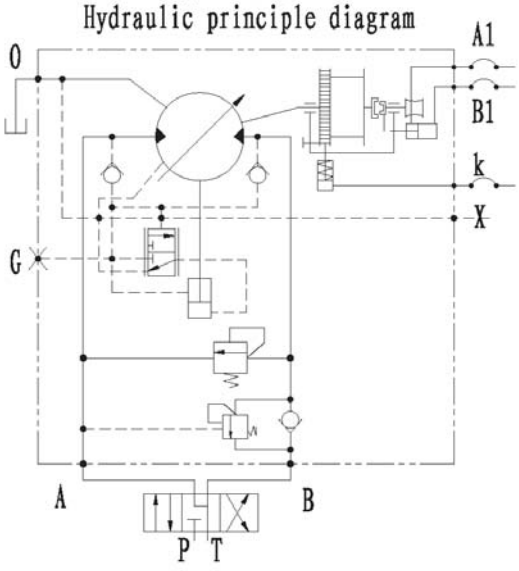




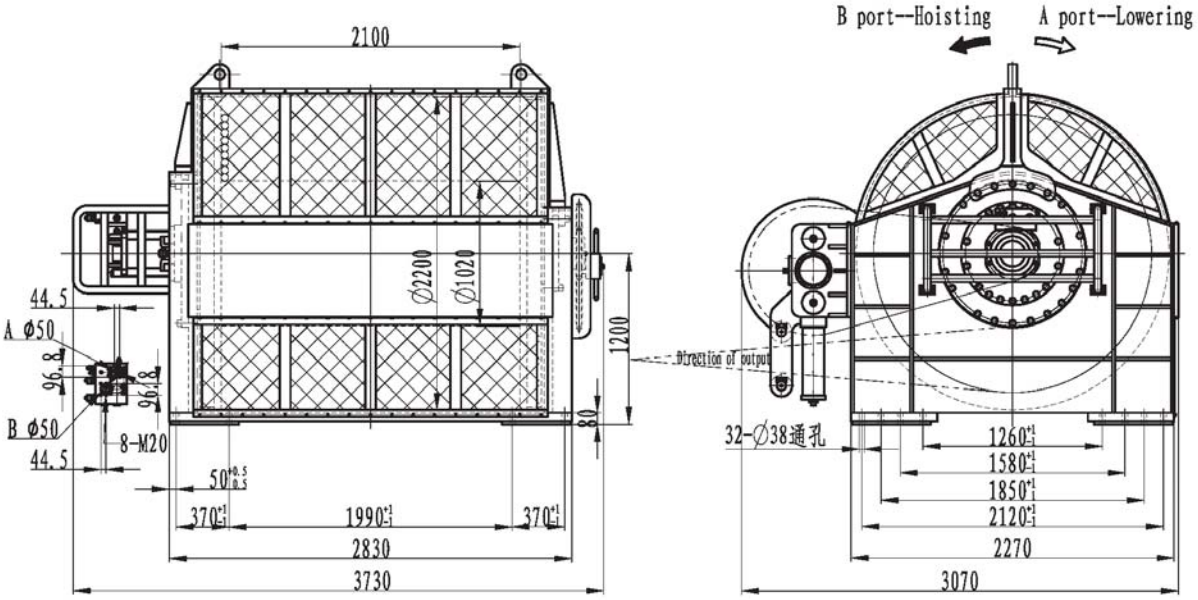
主要技术参数
Main Specification

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	Rope diameter (mm)	54
层数	Number of rope layers	4
容绳量	Wire rope capacity (m)	240
供油流量	Oil flow supply (L/min)	178(η 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)

液压原理图
Hydraulic principle diagram



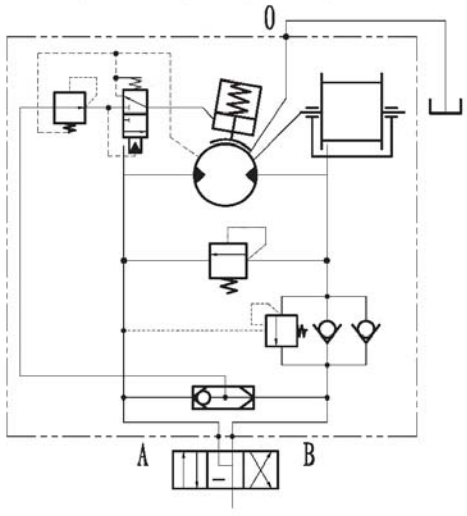
IYJ 61111-800-1600-52-ZP



Main Specification

Rated Line pull on the 1st layer (kN)	800
Line speed on the 1st layer (m/min)	20
Drum displacement (mL/r)	129650
Working pressure differernt (Bar)	260
System rated pressure (Bar)	280
Diameter of rope (mm)	52
Number of rope layers	9
Capability of drum (m)	1600
Flow (L/min)	856 (η v=0.9)
Hydraulic motor	HLA4FM500
Planetary gearbox type	IGC550W3-B259-A4FM500 (i=259.3)

Hydraulic principle diagram



注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

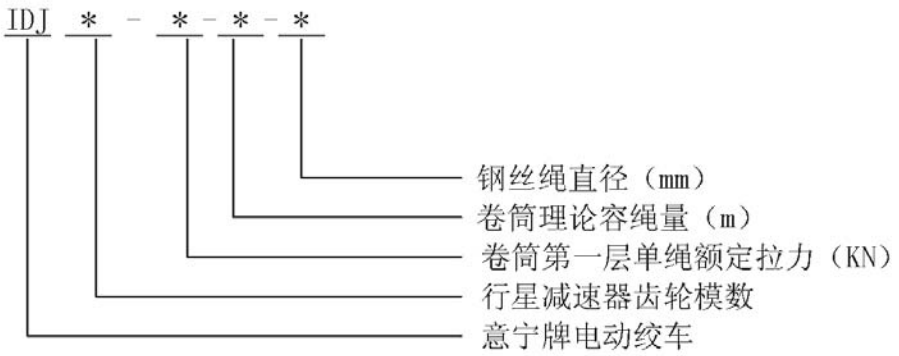
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

● IDJ 系列电动绞车

1、概述：

IDJ 系列电动绞车由带制动器的电动机、行星减速器、卷筒、机架等部件组成。用户只需配备电器箱即可。它具有外形美观、结构简单可靠、无污染、经济性好等特点，因而广泛用于各种船舶甲板机械、工程机械等领域。

2、型号说明：



3、型号举例：

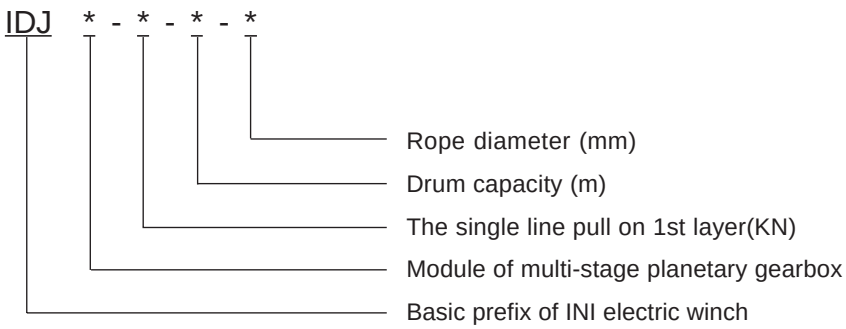
IDJ23-10-30-14 表示此绞车的行星减速器为双级行星减速器，第一级齿轮模数为 2，第二级齿轮模数 3，钢丝绳的第一层额定拉力为 10KN,卷筒理论容绳量为 30m,钢丝绳直径为 14mm。

IDJ Electric Winch Series

1. Brief Introduction

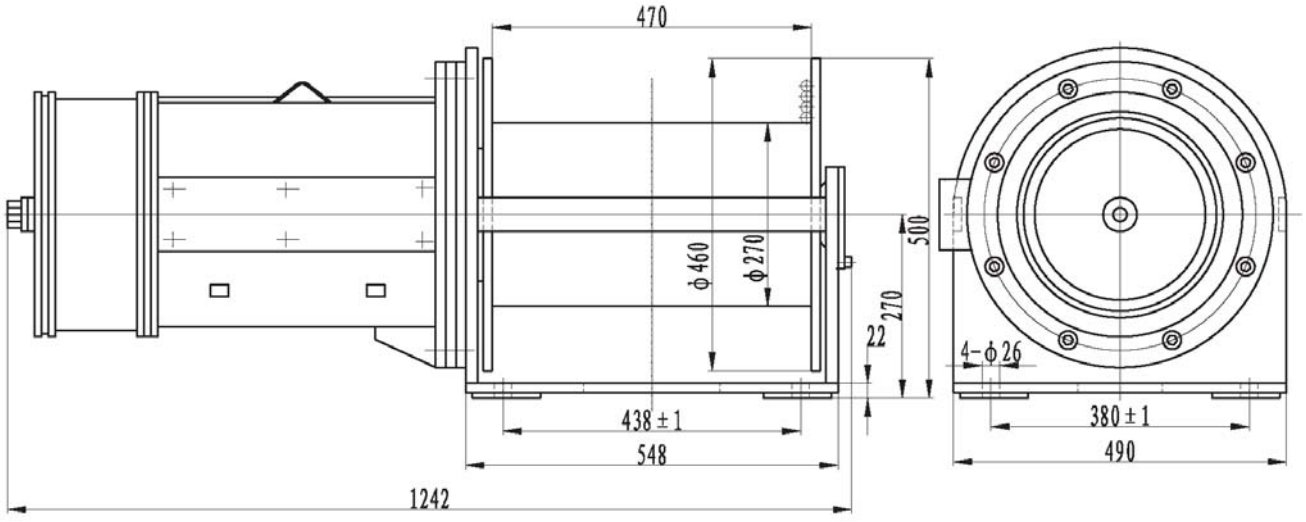
IDJ electric winch series consist of electromotor with brake, planetary gearbox, drum, and frame. The customer only equip electric box for winch performance. The series feature compact design, simply and rugged construction, high reliability, and good economy. Therefore they have been widely applied in ship and deck machinery, construction machinery.

2. Model Options



3. Options Example

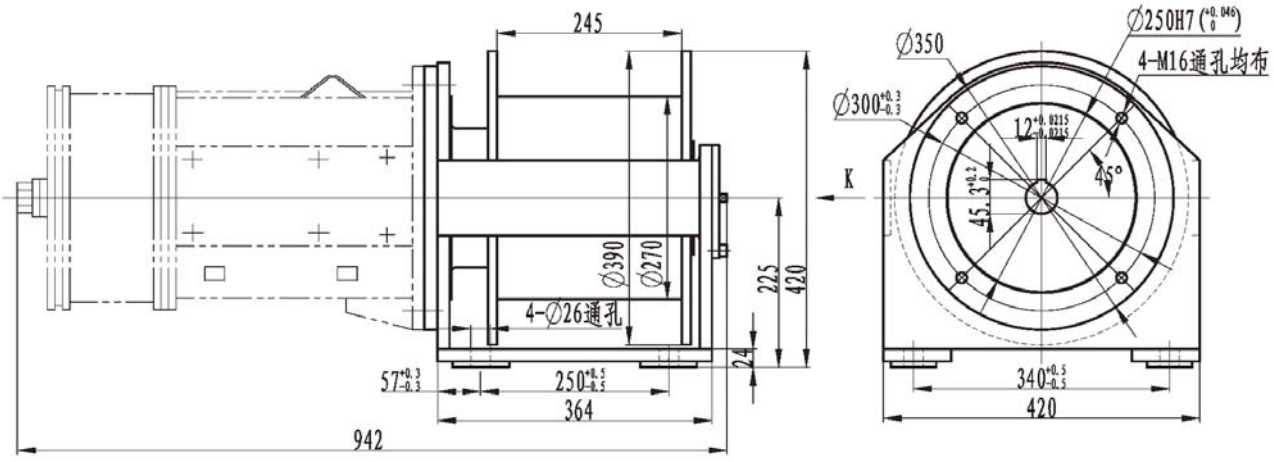
IDJ23-10-30-14 represents that the electric winch adopts two stages planetary gearbox, the modules of gearbox are 2.5 and 3 respectively, the single line pull on 1st layer is 10kN, the drum capacity is 30m, and the rope diameter is 14mm.



型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (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 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ23-10-130-14	10	15	14	4	130	YZ-132S-6-H	380	10.5	50	49	3.7
IDJ23-15-130-14	15	15	14	4	130	YZ-132M2-6-H	380	15.3	50	49	5.5
IDJ23-20-130-14	20	18	14	4	130	YZ-160S-6-H	380	19.73	50	49	7.5
IDJ23-25-130-14	25	16	14	4	130	YZ-160S-6-H	380	19.73	50	49	7.5
IDJ23-30-130-14	30	16	14	4	130	YZ-160L-6-H	380	26.8	50	49	11
IDJ23-40-120-15.5	40	7/14.5/30	15.5	4	120	JZ2-H-42-4/8/16	380	23/25.5/36	50	45	11/11/7.5

注：1.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；
2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

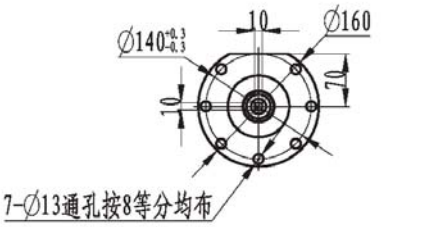
Note: 1. Drum capacity indicates theoretic valve. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension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



Specification 主要技术性能参数

Rope layer 钢丝绳层数	1	3
Line pull 钢丝绳拉力(kN)	18.9	16
Rope speed 绳速(m/min)	19	21
Rope capcity 容绳量(m)	16.5	54
Adviced rope size(1870) 钢绳规格(mm)	13	
Gearboxe model 行星减速器型号	C23	
Ratio 传动比	i=53.3077	
Motor type 电机型号	YZ-160S-6-H-B5(客户自供)	
Motor roted output 功率(kW)	8.5	
Motor roted speed 电机转速(r/min)	1140	
Voltage and Frequency 电制模式	440V,60Hz	
Motor Insulation 绝缘等级	F	
Motor Protection 防护等级	IP56(TENV)	

K向 K Direction

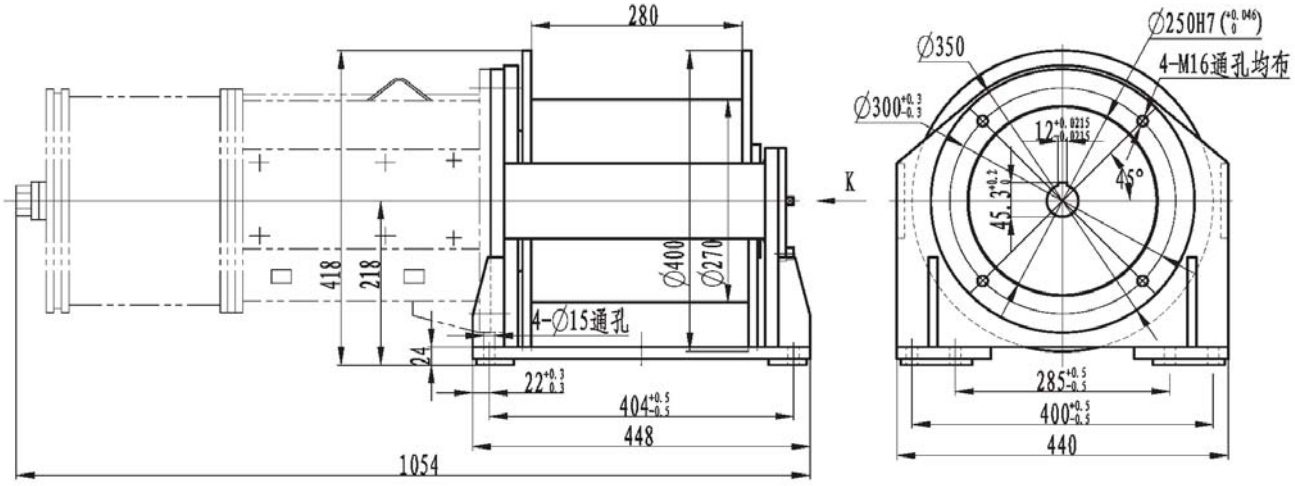


注: 1.容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出;

2.外形尺寸包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.

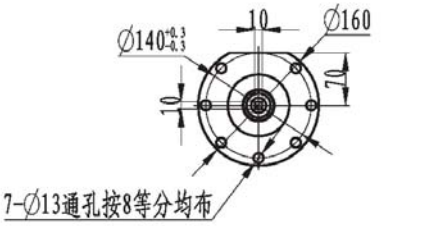
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.



Specification 主要技术性能参数

Rope layer 钢丝绳层数	1	3
Line pull 钢丝绳拉力(kN)	29.9	25
Rope speed 绳速(m/min)	19	21
Rope capcity 容绳量(m)	18	58
Adviced rope size(1870) 钢绳规格(mm)	14	
Gearboxe model 行星减速器型号	C23	
Ratio 传动比	i=53.3077	
Motor type 电机型号	YZ-160L-6-H-B5(客户自供)	
Motor roted output 功率(kW)	13	
Motor roted speed 电机转速(r/min)	1130	
Voltage and Frequency 电制模式	440V,60Hz	
Motor Insulation 绝缘等级	F	
Motor Protection 防护等级	IP56(TENV)	

K向 K Direction

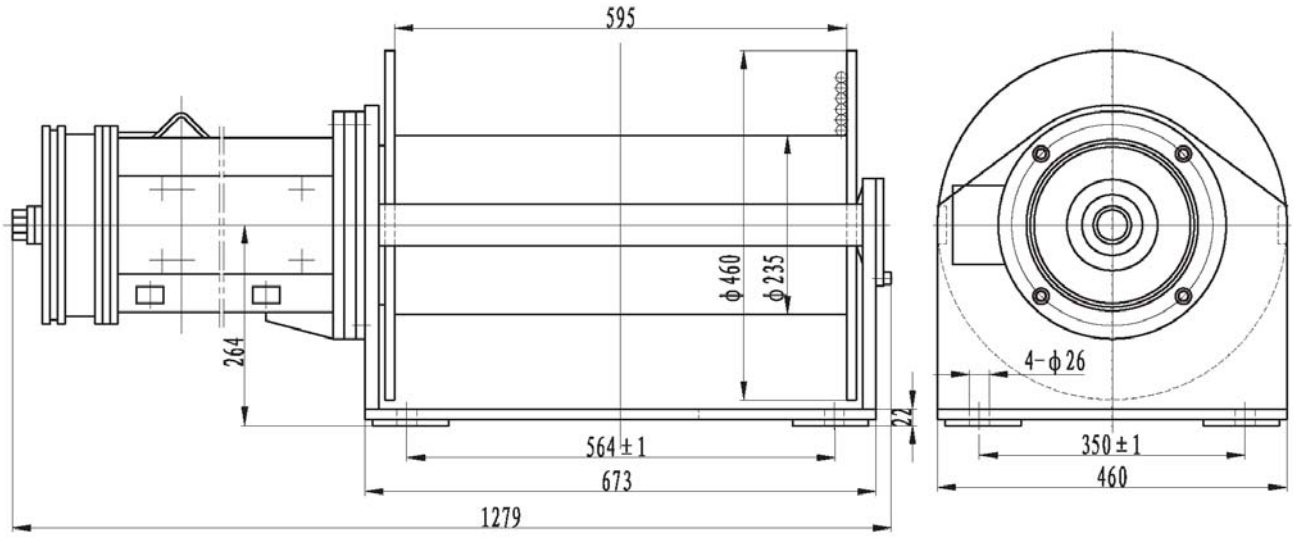


注: 1.容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出;

2.外形尺寸包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



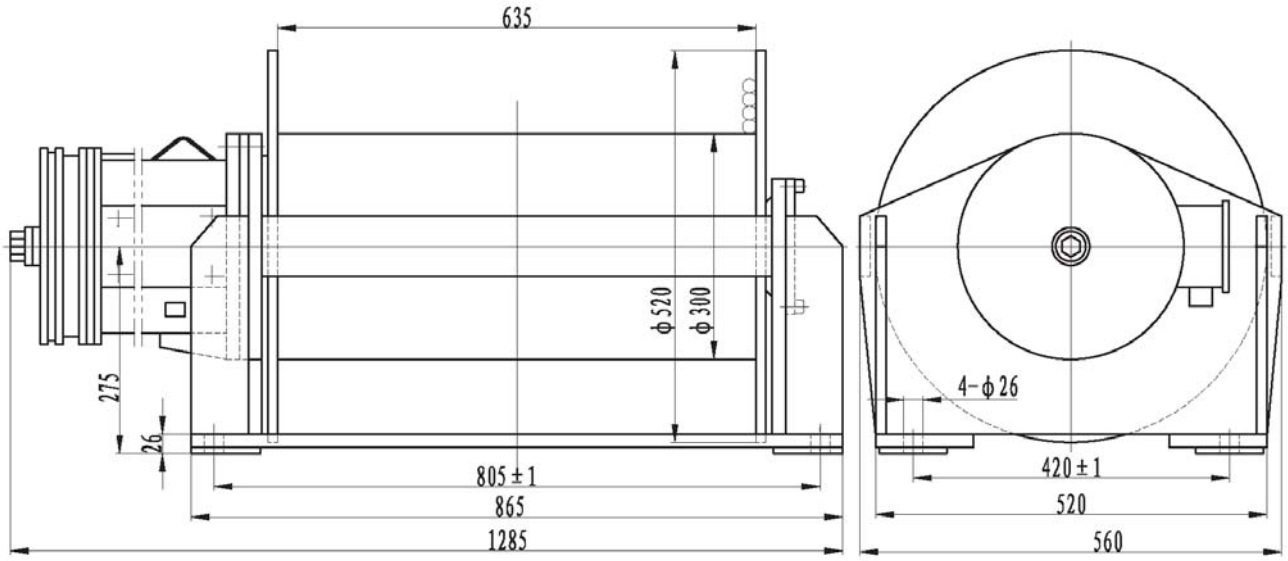
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ22.2.5-22-250-14	22	2.2/6.6	14	6	250	JZ2-H-23-4/12	380	9.5/10.1	50	175	4.3/1.7

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



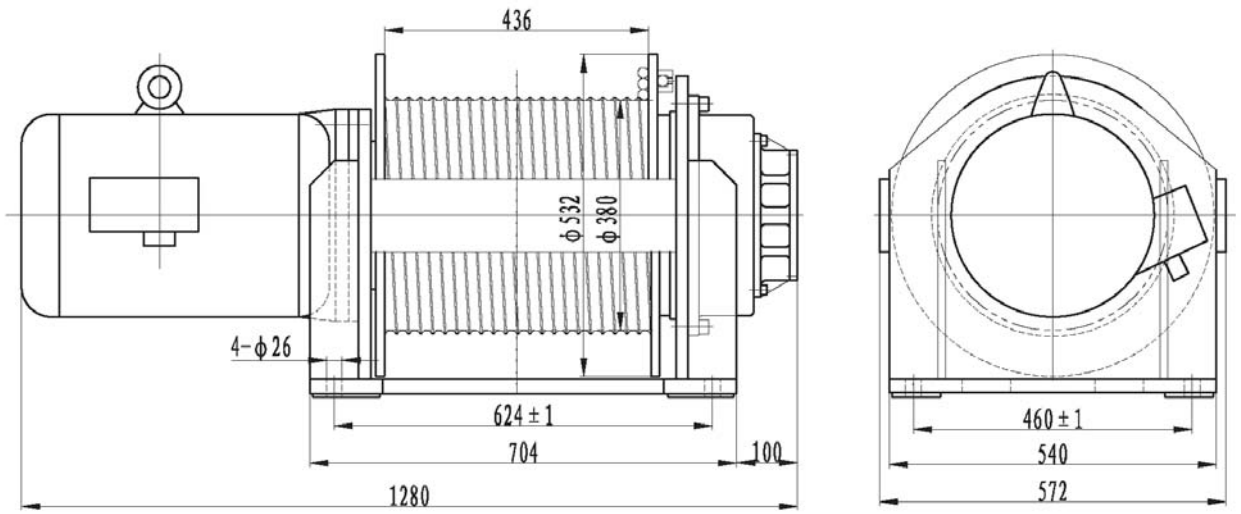
型号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ233-36-171-16	36	11.5	16	4	171	YZ-132M2-4-H	380	18.5	50	125	7.5
IDJ233-40-171-16	40	11.5/3.8	16	4	171	JZ2-H-33-4/12	380	17.9/14.8	50	125	8.5/3.5
IDJ233-42-160-18	42	14.5	18	4	160	YEJ160M-4-B5	380	22.6	50	100	11

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



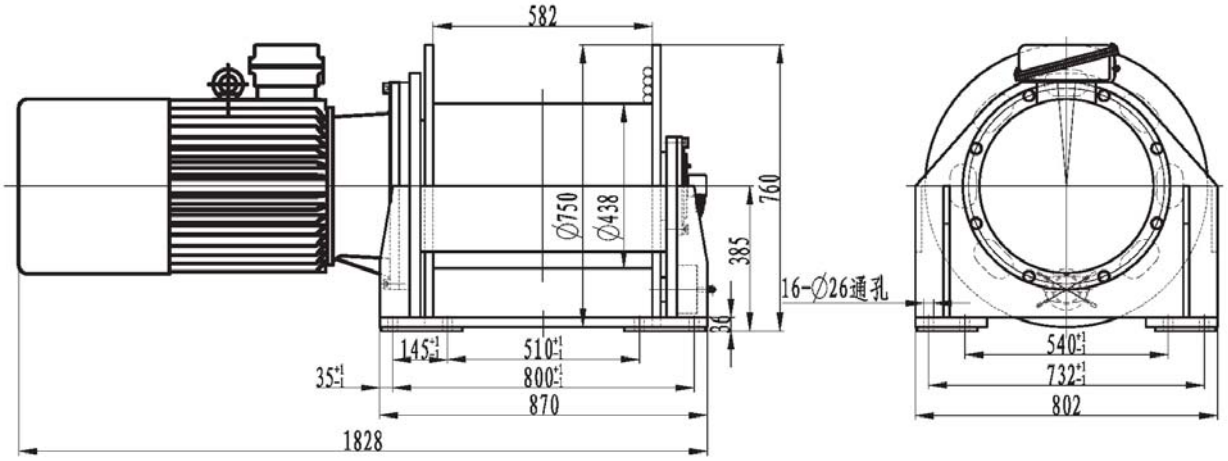
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ234-60-96-18	60	9	18	3	96	YEJ160M-4-B5	380	22.6	50	192.5	11

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



Specification 主要技术性能参数

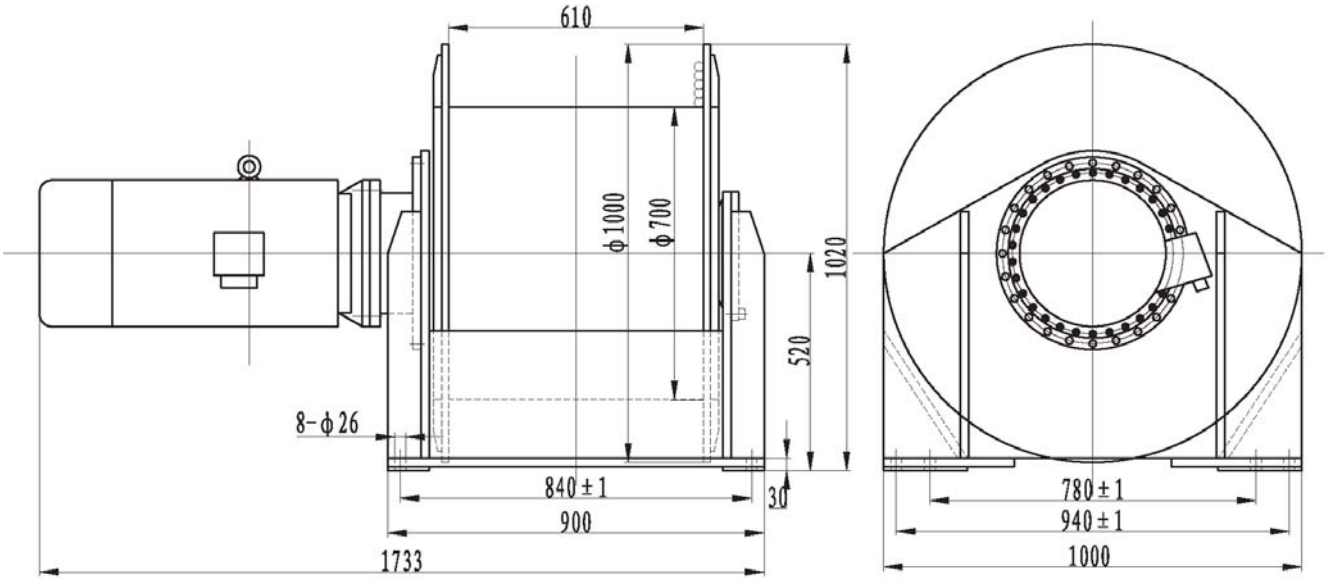
Rope layer 钢丝绳层数	1	4
Rope capcity 容绳量(m)	30	150
Line pull 钢丝绳拉力(kN)	80	
Rope speed 绳速(m/min)	18	
Adviced rope size 钢绳规格(mm)	24	
Gearboxe model 行星减速器型号	IGT36W3-B59.3894	
Ratio 传动比	i=59.3894	
Motor type 电机型号	YZP2-250M-8H(客户自供)	
Motor roted output 功率(kW)	30	
Motor roted speed 电机转速(r/min)	735	
Voltage and Frequency 电制模式	380V,50Hz	
Motor Insulation 绝缘等级	F	
Motor Protection 防护等级	IP56(TENV)	

注: 1.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;

2.外形尺寸包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



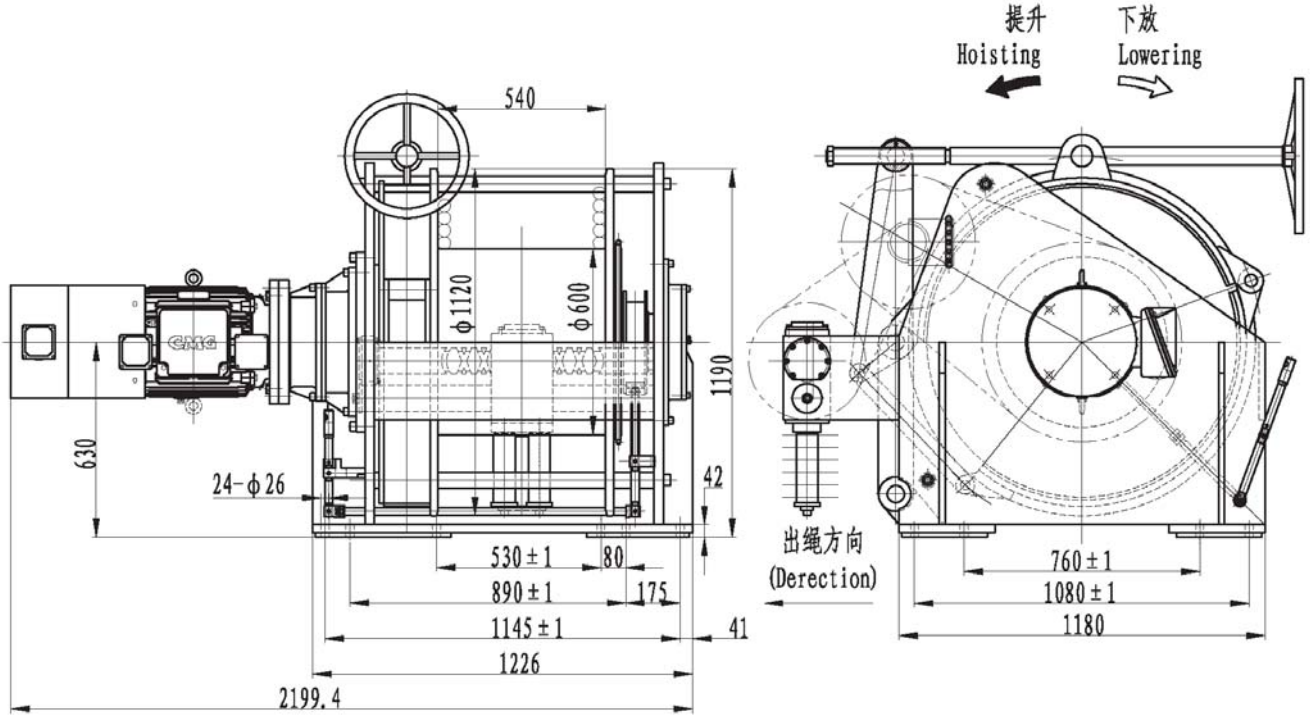
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电 制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ345-85-340-21.5	85	19	21.5	5	340	YEJ200L-4-B5	380	56.8	50	177.1	30

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. Maintain mandatory minimum of three wraps of wire rope to be left on the drum at all times for safety.

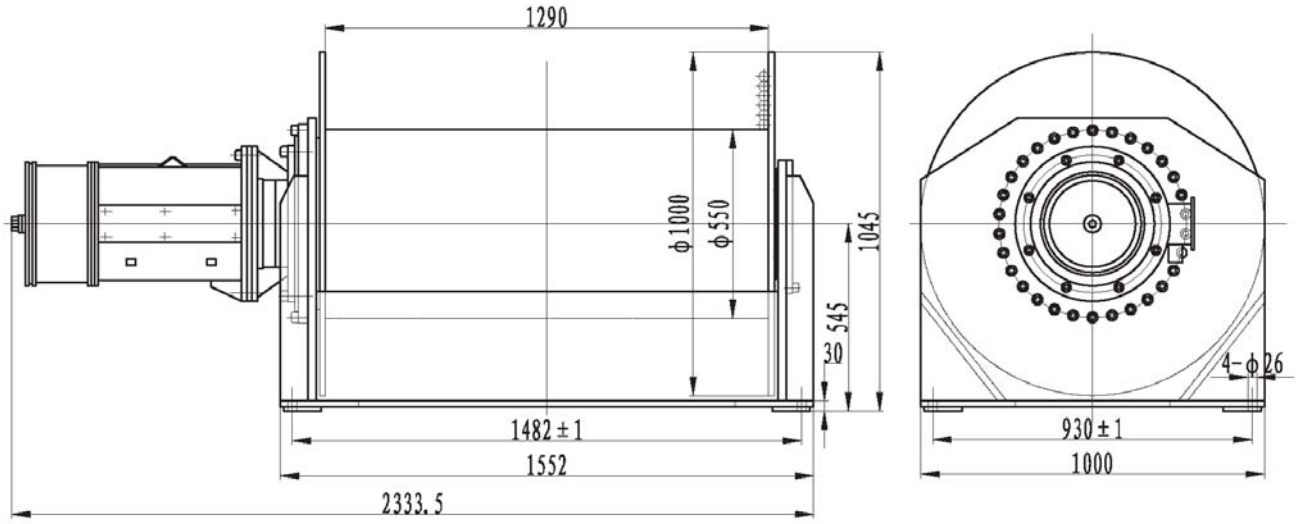
2. The dimension of general electric motor is included in above installation drawing. If fitted electric motor is specific, the connection dimension is also changed.



型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (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 (V) Volt (V)	电流 (A) Current (A)	频率 (Hz) Frequency (Hz)		
IDJ356-100-150-40	100	11	40	5	150	M34018505	415	43.9	50	267.274	18.5

注：1. 额定扭矩是指考虑系统压力损失和行星减速器效率以及电动机的机械效率后实际输出的扭矩值。
2. 表格里的外形尺寸均不包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



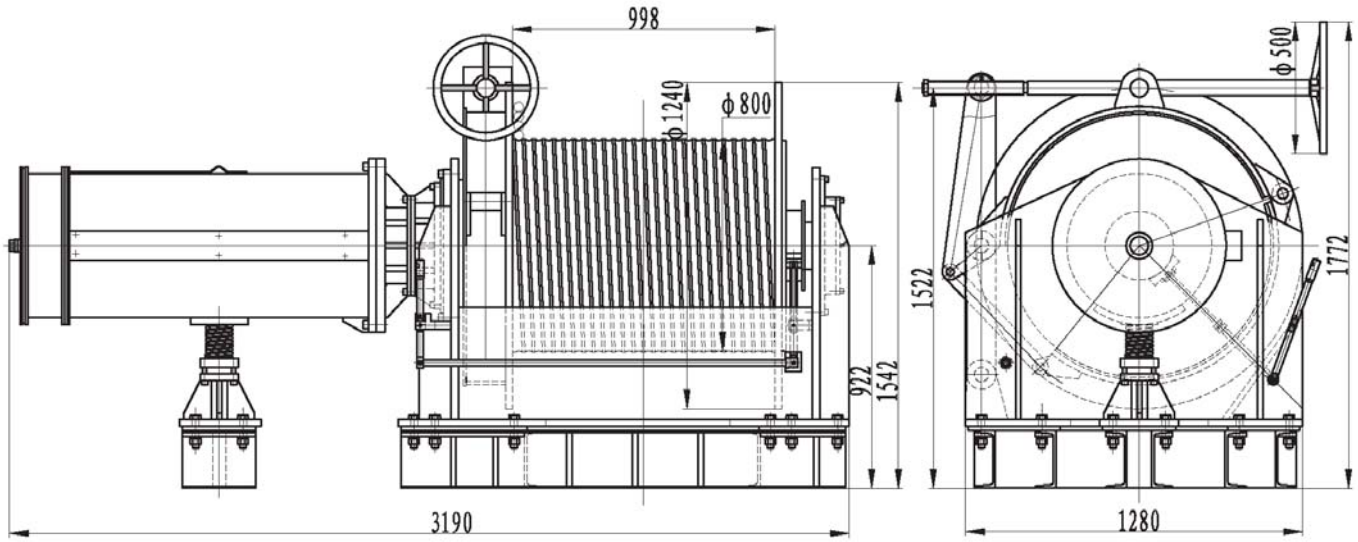
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 (V) Volt (V)	电流 (A) Current (A)	频率 (Hz) Frequency (Hz)		
IDJ356-150-600-28	150	7	28	6	600	YZ-220M-6-H	380	43.9	50	245	18.5

注：1.额定扭矩是指考虑系统压力损失和行星减速器效率以及电动机的机械效率后实际输出的扭矩值。

2.表格里的外形尺寸均不包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



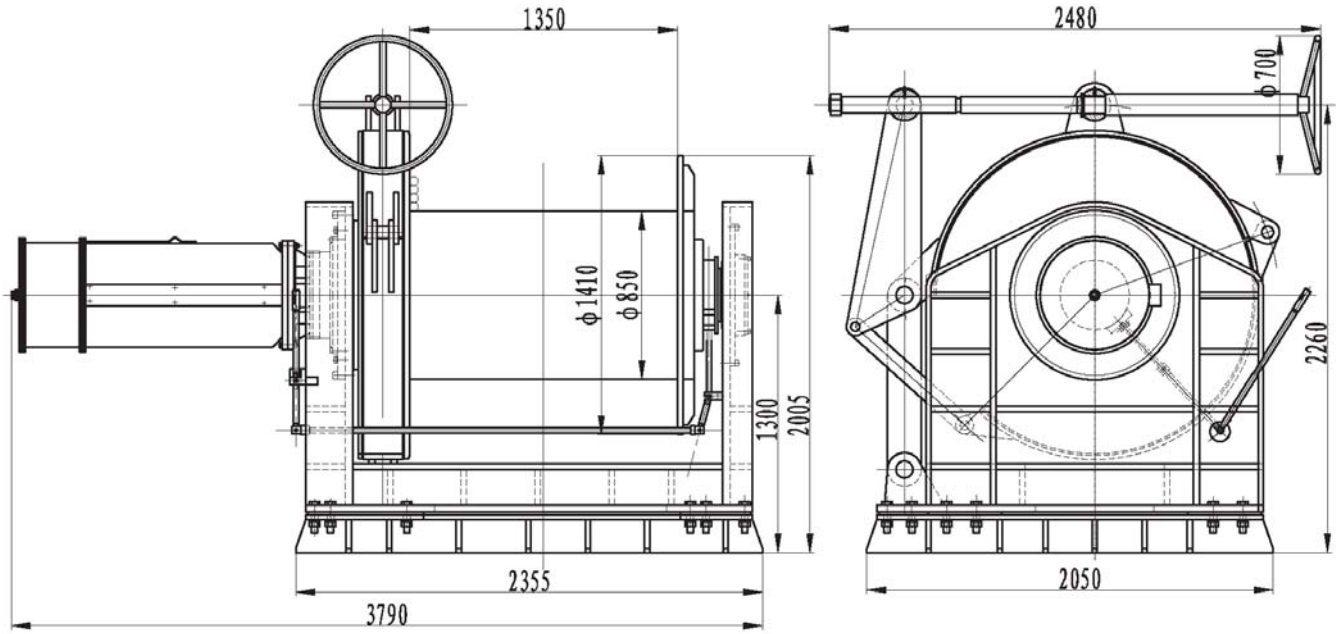
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ456-150-300-36	100/150	36/18	36	4	300	JZ2-H-72-4/8	380	114/135	50	112	60

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.



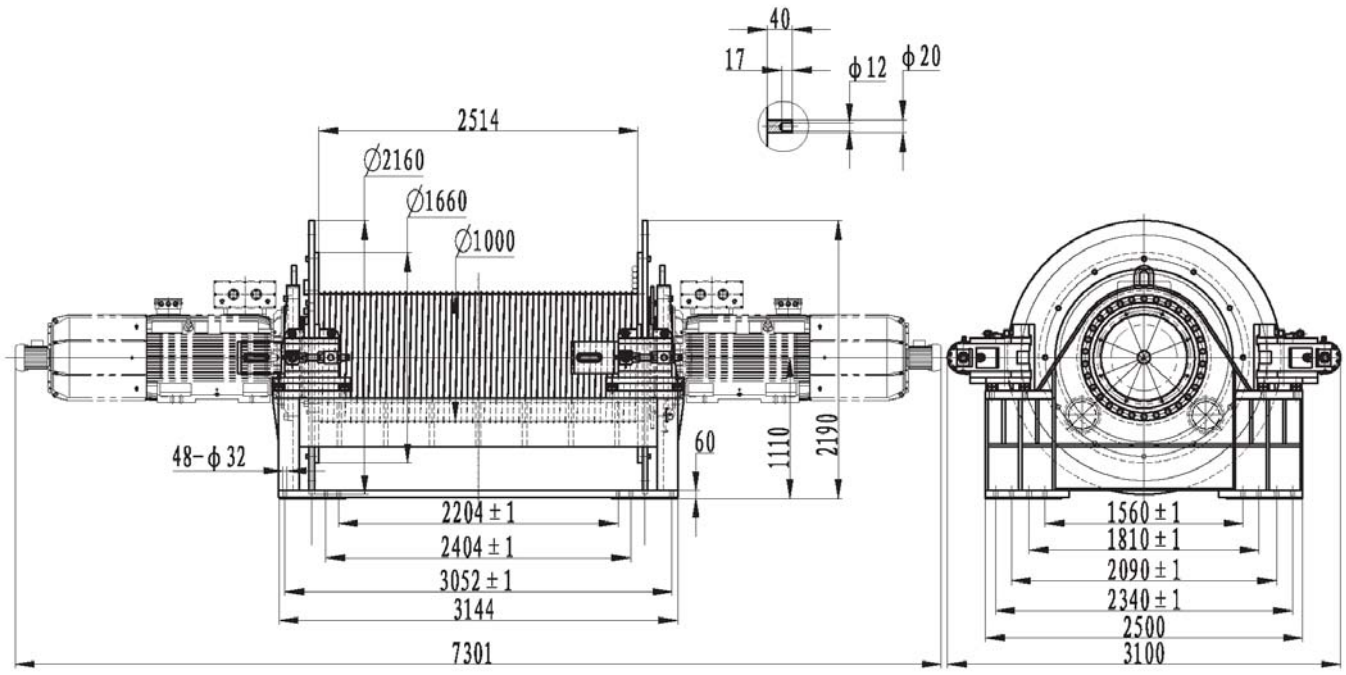
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ479-120-350-43	120/240/360	6.4/3.2/1.6	43	4	350	JZ2-H-72-4/8/16	380	114/135/195	50	198	60/60/45

注：1.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；

2.表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (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 Volt (V)	频率 Frequency (Hz)		
IDJ699-600-1000-44	600	2-60	44	5	1000	SXLEB355ML..S-IM2001	440	60	88.3116	350x2

注：1. 本绞车由变频电机和变频器计算控制绳速；

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；

3. 表格里的外形尺寸均包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接板需特殊加工。

Note: 1. Drum capacity indicates theoretic valve. 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.

● IMYJ 系列液压摩擦绞车

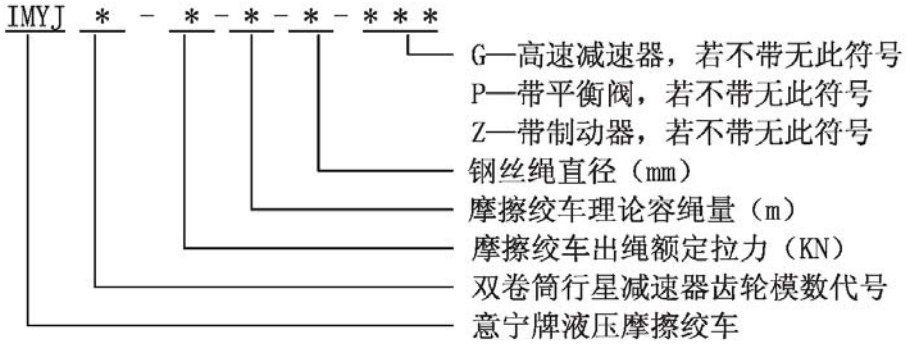
1、概述：

IMYJ 系列液压摩擦绞车是本公司的专利产品。该系列液压绞车主要由贮缆绞车和双卷筒绞车组成。根据实际使用场合不同，可以配置滑轮组、导绳器等辅助设备，另外本公司专利的配套液压系统能使该系列绞车以最低的能耗发挥最大的使用功效。

该系列绞车主要用于大容量绳长，且有恒张力出绳要求的使用场合。该系列绞车可以根据需要配置单速或双速变量液压马达以实现两档速度的变换。由于使用了公司专有的高速液压马达及配套滑轮组，该系列绞车具有工作效率高、能耗少、可靠性高、噪音低、外形美观、尺寸紧凑、经济性好等特点。

该系列绞车广泛用于野外铺管、海工装备、电力抢救、车辆转运等领域。不仅已在国内广泛应用，并已出口到俄罗斯、荷兰、中东、东南亚等国家地区。

2、型号说明



3、型号举例：

IMYJ61111-1500-400-63-ZPG 表示此绞车采用高速行星减速器，行星减速器的模数代号为 61111，钢丝绳的第一层额定拉力为 1500KN,卷筒理论容绳量为 400m,钢丝绳直径为 63mm。此绞车带制动器及单向平衡阀。

● IMYJ series hydraulic friction winch

1. Brief introduction

IMYJ series hydraulic friction winch is our patent product. It consists of storage winch and double drum winch. The winch can be used together with pulley and rope guide to suit various working condition. We could also supply the mating hydraulic power pack which is also our patent product. The power pack could deliver maximum efficiency with minimum energy consumption.

This series winches are suitable for applications which require big rope storage capacity and constant line pull output. The winch can be fitted with single speed or two speed hydraulic motor. By using our own high speed hydraulic motor and mating pulley, this series winch features high working efficiency, low energy consumption, high reliability, low noise, compact and elegant design, and high cost efficiency.

They have been used in fields such as pipe laying, offshore equipment,electric power recovery, vehicle transportation , etc. They are not only widely used in Chinese market, but also been export to Russia, Netherlands, Middle East, Southeast Asia and other countries in the world.

2. Model no. explanation

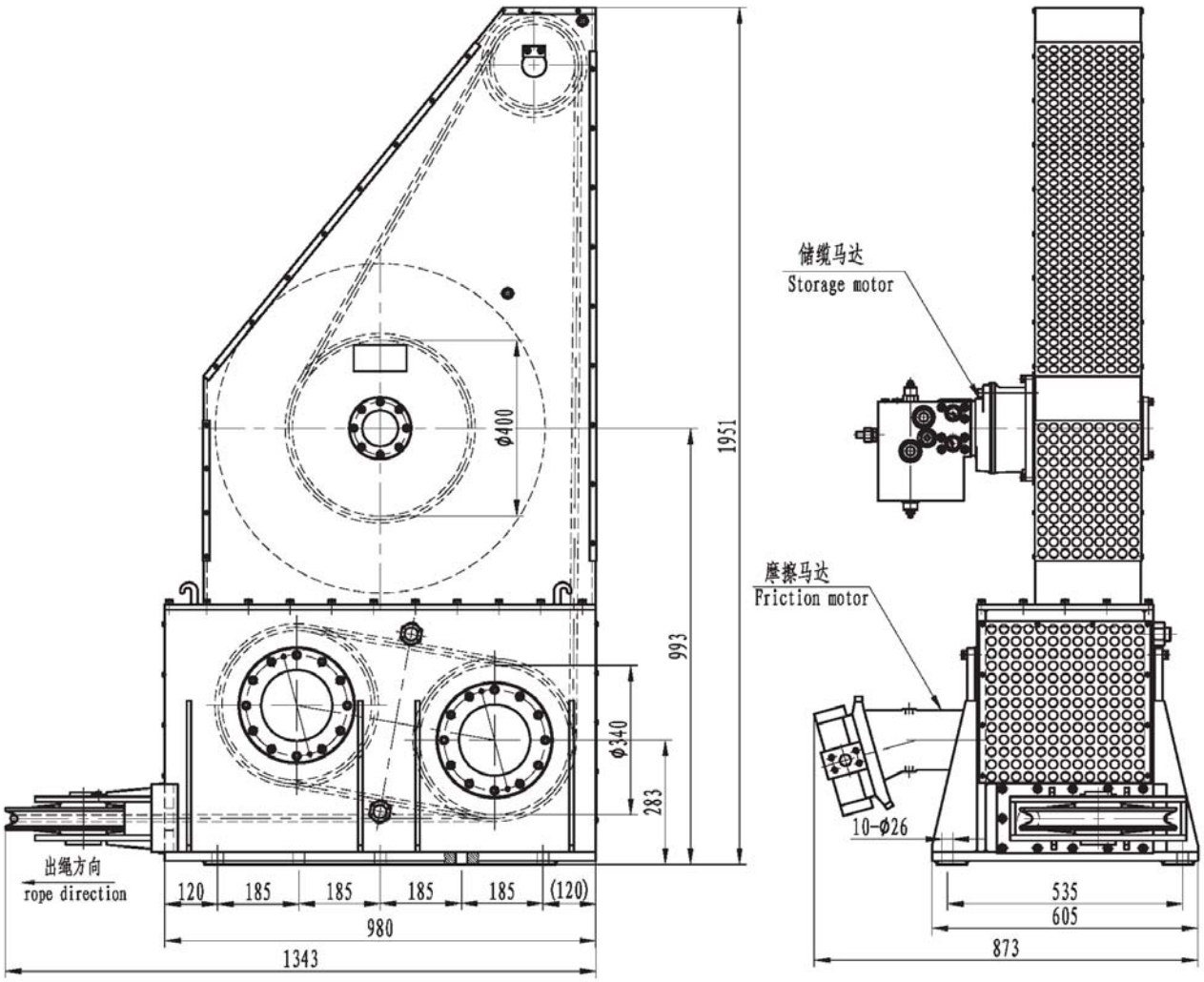
IMYJ * - * - * - * - * * *

- G—high speed planetary gearbox if fitted
- P—counter balance valve if fitted
- Z—brake if fitted
- Wire rope diameter（mm）
- Theoretic drum storage capacity of friction winch (m)
- Rated line pull of friction winch（KN）
- Gear module of double drum planetary gearbox
- INI hydraulic friction winch

3. model no. example:

IMYJ61111-1500-400-63-ZPG means that winch is fitted with high speed planetary gearbox. Gear module is 61111. Rated line pull on first layer is 1500 KN. Theoretic drum storage capacity is 400 meters. Wire rope diameter is 63 mm. The winch is fitted with brake and single counterbalance valve.

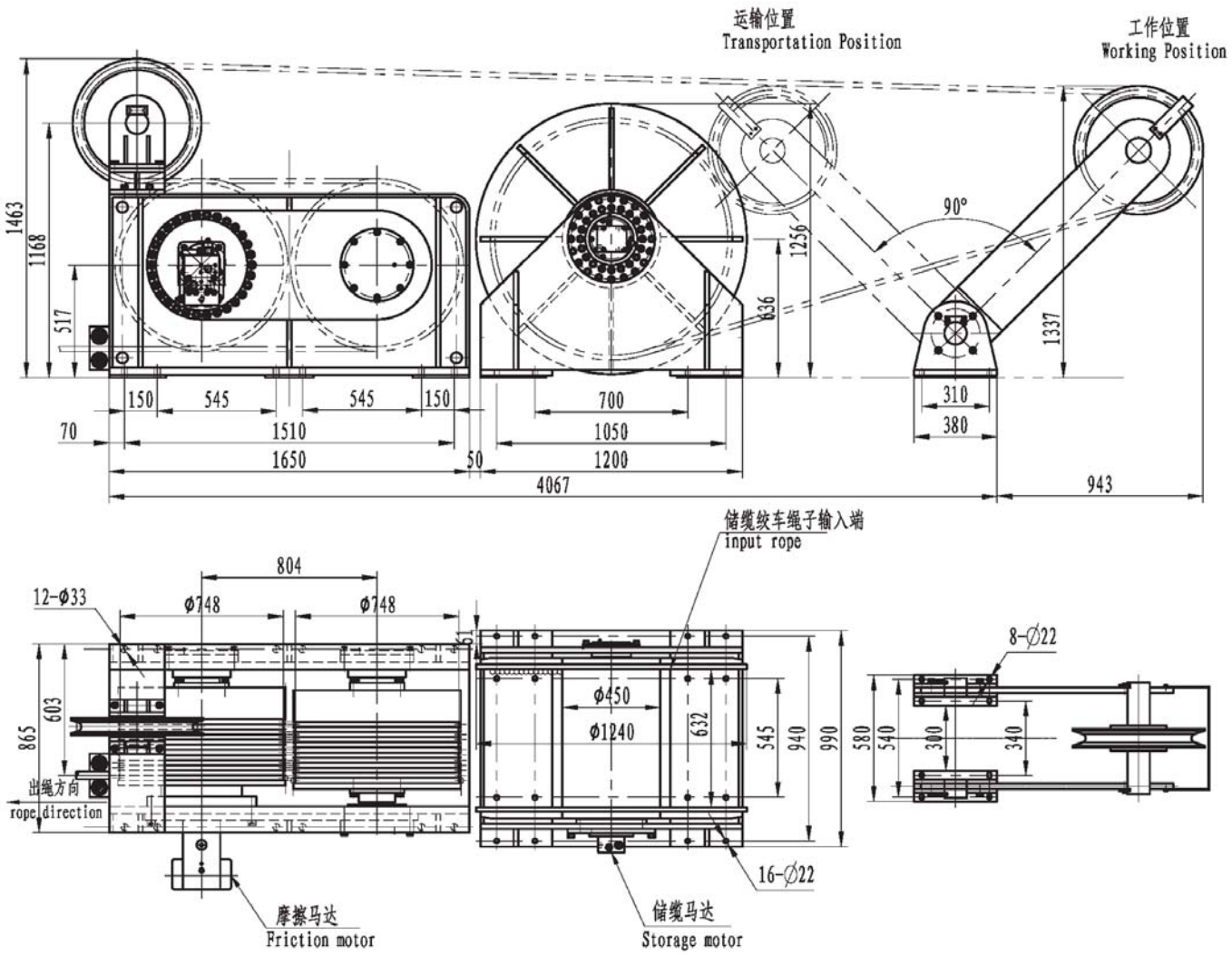
33-65-120-16-ZPG



储缆绞车 Storage drum winch	最大拉力	Max. pull on the drum(T)	0.05-0.1
	钢丝绳直径	Diameter of rope(mm)	16
	层数	Number of rope layers	9
	容绳量	Capability of drum(m)	120
	储缆马达型号	Storge winch motor type	INM2-420
	卷筒排量	Drum displacement(ml/rev)	425
	系统额定压力	System rated pressure(MPa)	6
	工作压差	Working pressure diff.(MPa)	5
	输出扭矩	Output torque(N.m)	300

双卷筒绞车 Twin drum winch	第一层拉力	Pull on the 1st layer(T)	6.5
	第一层绳速	Speed at 1st layer(m/min)	0-70
	系统额定压力	System rated pressure(MPa)	25
	工作压差	Working pressure diff.(MPa)	23
	输出扭矩	Output torque(N.m)	12500
	卷筒排量	Drum displacement(mL/r)	4296
	钢丝绳直径	Diameter of rope(mm)	16
	马达型号	Hydraulic motor type	A6V80
	传动比	Gearbox ratio	53.7

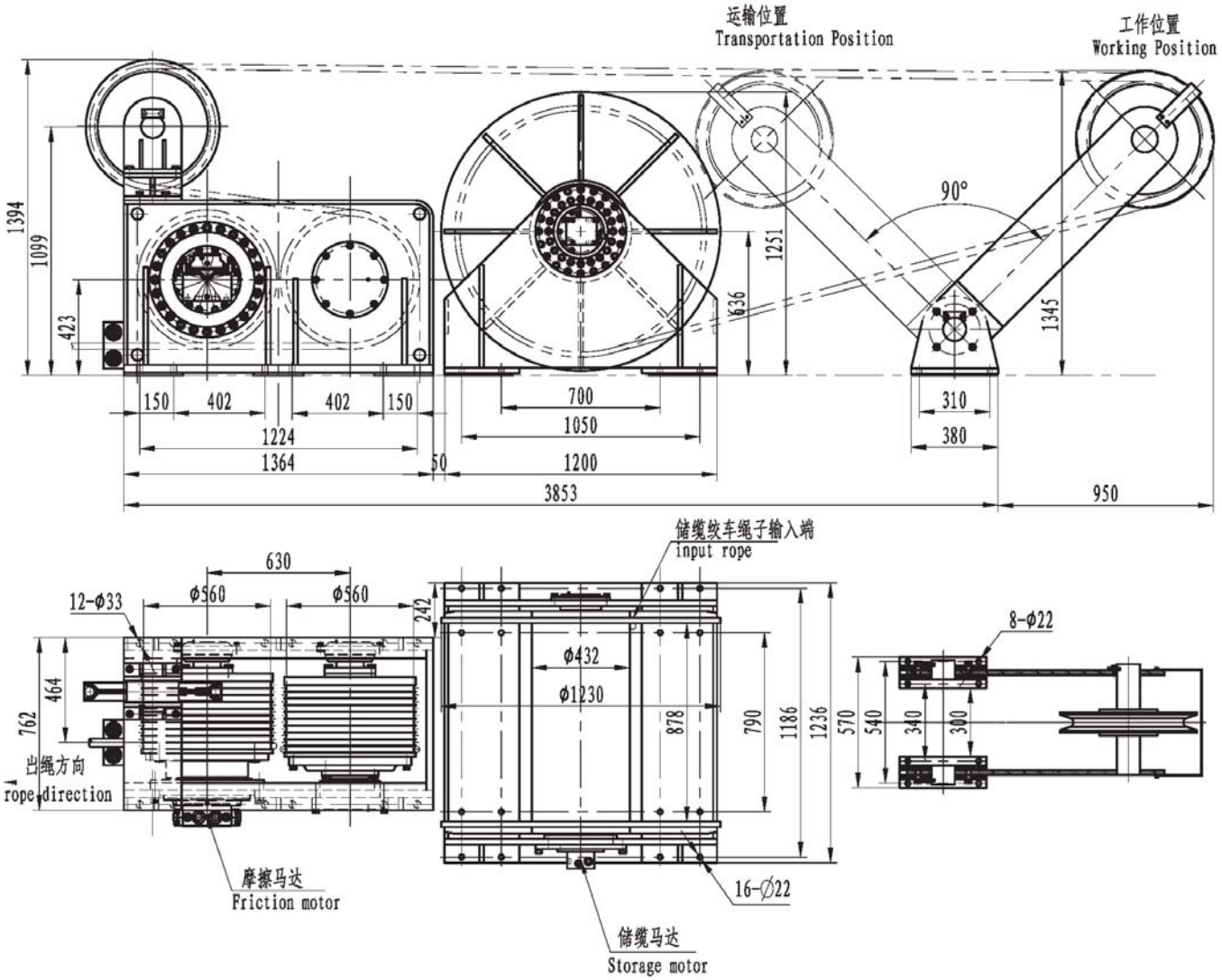
466-200-1000-22-ZPG



储缆绞车 Storage drum winch	最大拉力	Max. pull on the drum(T)	0.5-1
	钢丝绳直径	Diameter of rope(mm)	22
	层数	Number of rope layers	15
	容绳量	Capability of drum(m)	1000
	储缆马达型号	Storge winch motor type	IM52
	储缆绞车传动比	Storge winch ratio	45.4
	卷筒排量	Drum displacement(ml/rev)	2356
	系统额定压力	System rated pressure(MPa)	20
	工作压差	Working pressure diff. (MPa)	18
	输出扭矩	Output torque(N.m)	7000

双卷筒绞车 Twin drum winch	第一层拉力	Pull on the 1st layer(T)	20
	第一层绳速	Speed at 1st layer(m/min)	0-21
	系统额定压力	System rated pressure(MPa)	20
	工作压差	Working pressure diff. (MPa)	18
	输出扭矩	Output torque(N.m)	58000
	卷筒排量	Drum displacement(mL/r)	22250
	钢丝绳直径	Diameter of rope(mm)	22
	马达型号	Hydraulic motor type	A2FM250
	传动比	Gearbox ratio	89

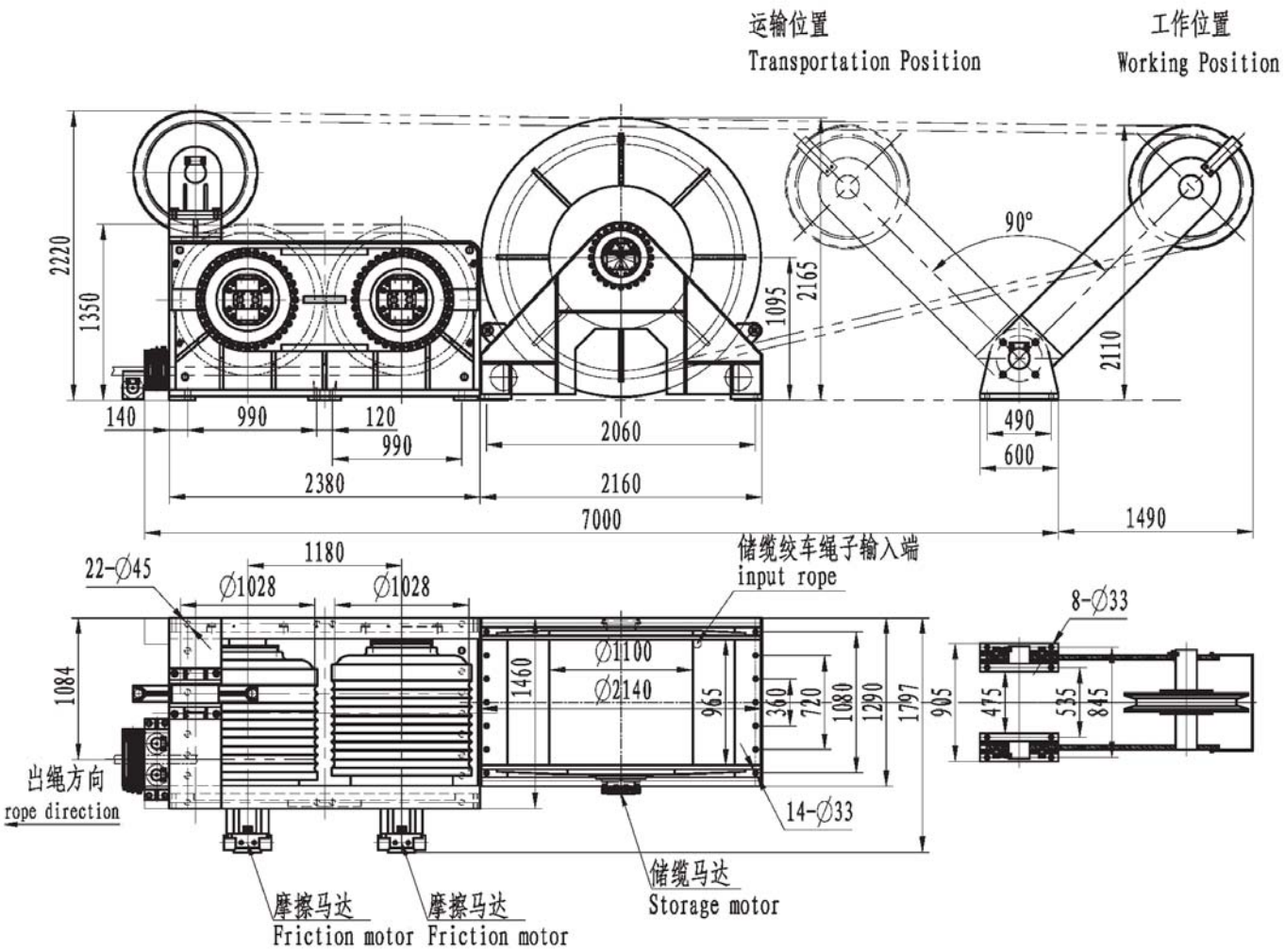
466-300-900-27-ZPG



储缆绞车 Storage drum winch	最大拉力	Max. pull on the drum(T)	0.5-1
	钢丝绳直径	Diameter of rope(mm)	22
	层数	Number of rope layers	15
	容绳量	Capability of drum(m)	900
	储缆马达型号	Storge winch motor type	IM52
	储缆绞车传动比	Storge winch ratio	45.4
	卷筒排量	Drum displacement(ml/rev)	2356
	系统额定压力	System rated pressure(MPa)	20
	工作压差	Working pressure diff. (MPa)	18
	输出扭矩	Output torque(N.m)	7000

双卷筒绞车 Twin drum winch	第一层拉力	Pull on the 1st layer(T)	30
	第一层绳速	Speed at 1st layer(m/min)	0-15
	系统额定压力	System rated pressure(MPa)	26
	工作压差	Working pressure diff. (MPa)	24
	输出扭矩	Output torque(N.m)	95000
	卷筒排量	Drum displacement(mL/r)	29841
	钢丝绳直径	Diameter of rope(mm)	27
	马达型号	Hydraulic motor type	IM172
	传动比	Gearbox ratio	128.6

61111-1500-400-63-ZPG



储缆绞车 Storage drum winch	最大拉力	Max. pull on the drum(T)	12.7-8.1
	钢丝绳直径	Diameter of rope(mm)	63
	层数	Number of rope layers	6
	容绳量	Capability of drum(m)	400
	储缆马达型号	Storge winch motor type	IM172
	储缆绞车传动比	Storge winch ratio	128.6
	卷筒排量	Drum displacement(ml/rev)	22119
	系统额定压力	System rated pressure(MPa)	26
	工作压差	Working pressure diff. (MPa)	25
	输出扭矩	Output torque(N.m)	72600

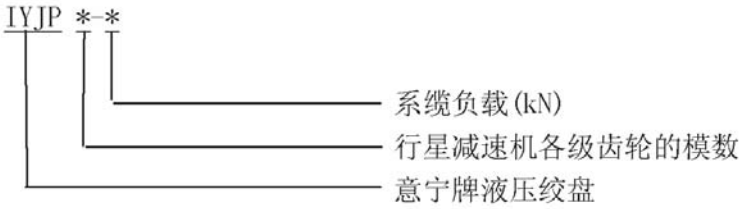
双卷筒绞车 Twin drum winch	第一层拉力	Pull on the 1st layer(T)	150
	第一层绳速	Speed at 1st layer(m/min)	0-5
	系统额定压力	System rated pressure(MPa)	26
	工作压差	Working pressure diff. (MPa)	25
	输出扭矩	Output torque(N.m)	723000
	卷筒排量	Drum displacement(mL/r)	113000x2
	钢丝绳直径	Diameter of rope(mm)	63
	马达型号	Hydraulic motor type	A4FM500x2
	传动比	Gearbox ratio	226

IYJP 系列液压绞盘

1、概述

IYJP 系列液压绞盘采用了本公司专利技术，由带平衡阀及控制制动器的高压梭阀组成的各种集成阀块、高速液压马达、Z 型制动器、行星减速机、绞盘头及机架等部件组成，用户只需配备泵站和换向阀即可。由于绞盘自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性。除此，它还具有起动和工作时效率高、功率大、能耗少、噪音低、外形美观、尺寸紧凑、经济性好等特点，该产品可广泛用于各种船舶甲板机械等设备中，产品不但已畅销全国，并出口到东南亚、澳大利亚、荷兰等国家和地区。

2、型号说明



3、型号举例

IYJP3-20 表示行星减速器一级齿轮模数为 3，系缆负载拉力为 20KN 的液压绞盘。

4、参数说明

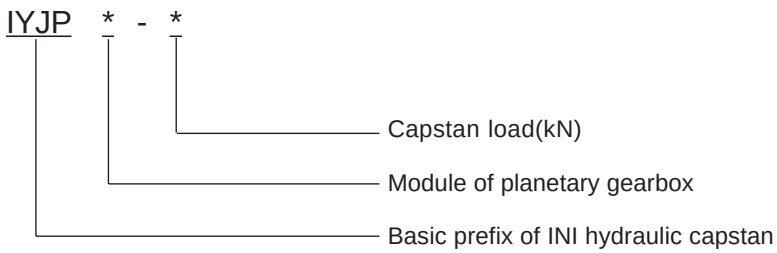
a. 总排量是指绞盘每转所需供给的理论供油量(ml/r)。
b. 供油流量是指泵的理论供油流量。
c. 工作压差为绞车工作时液压马达进出油口的压力差(MPa)。

IYJP Hydraulic Capstan Series

1. Brief Introduction

IYJP hydraulic capstan series are patent products of our company. They consist of valve blocks with function of brake and overload protection, hydraulic motor, 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

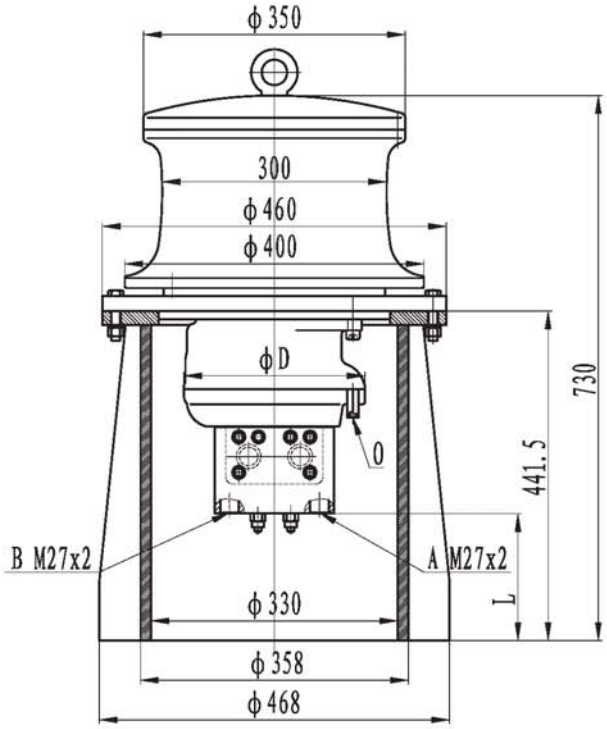


3. Options Example

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.

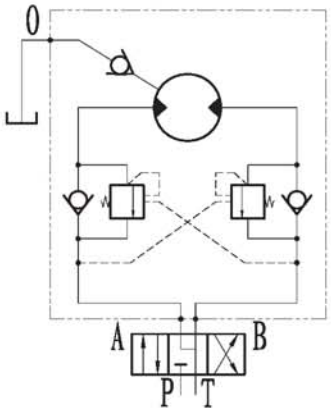


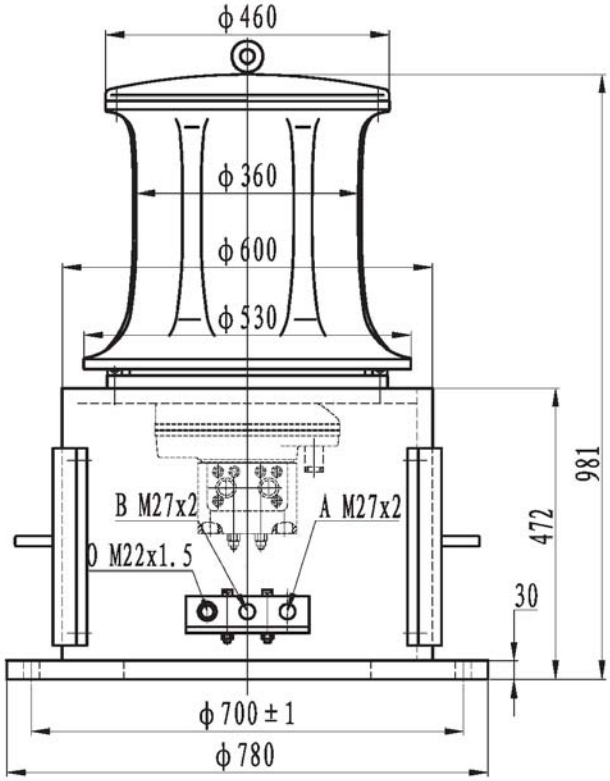
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model	D	L	O
IYJP3-10	10	25	13	14	860	25	INM1-175D47+F1202	C3AC(I=5)	242	170.6	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"

液压原理图
Hydraulic principle diagram

注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.



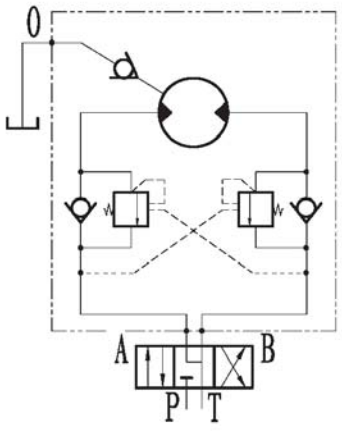


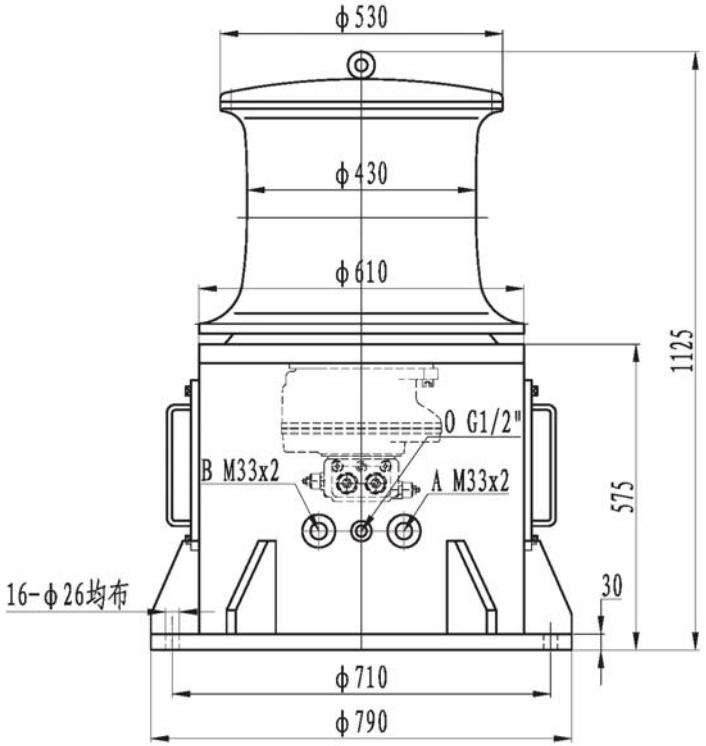
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP4-40	40	15	20	14.5	3955	56	INM2-600D47+F1202	C4C(I=7)
IYJP4-50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

注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.

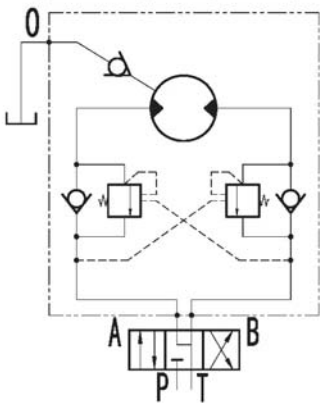
液压原理图
Hydraulic principle diagram





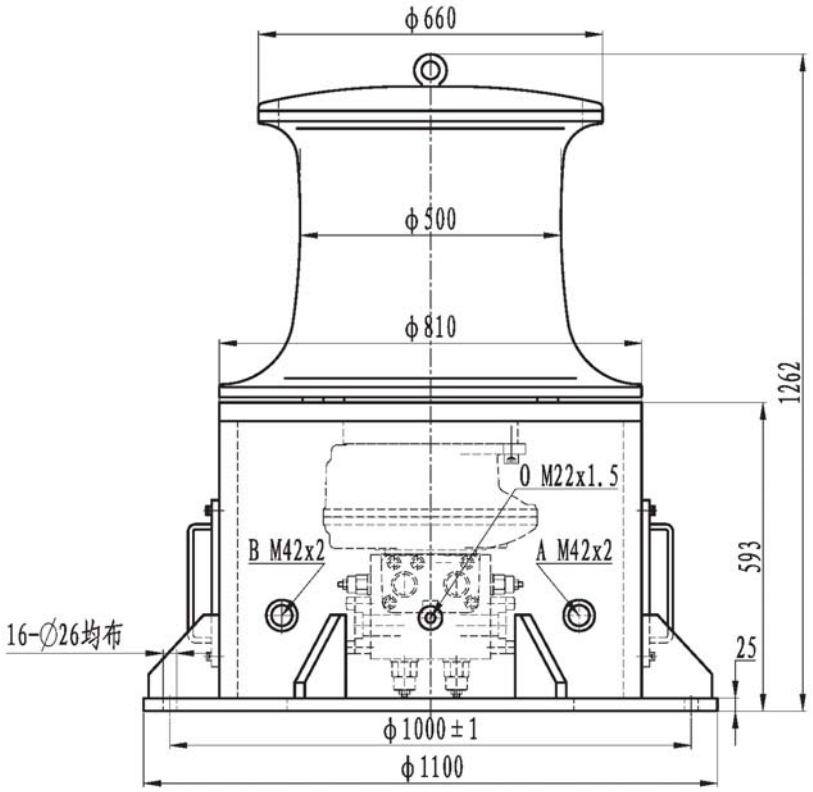
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP34-80	80	12	24	12	11900	111	INM2-420D240221	C34C(I=28)
IYJP34-90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

液压原理图
Hydraulic principle diagram



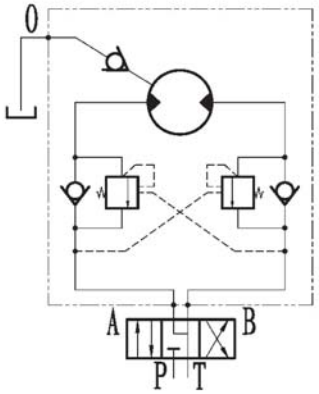
注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.



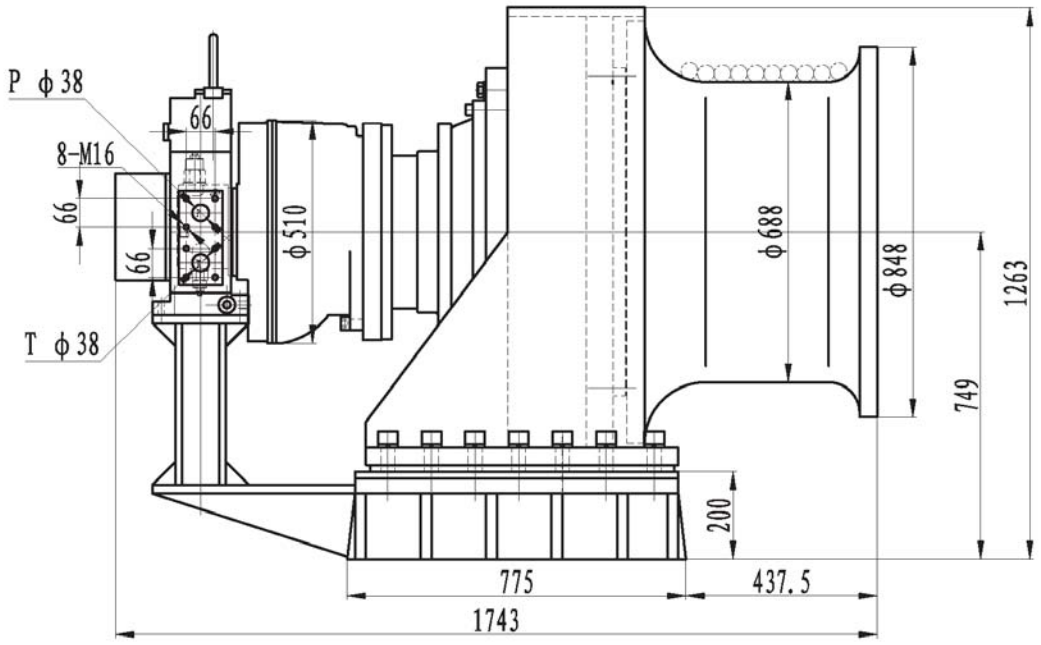
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP45-120	120	12	30	14	17248	138	INM4-600D90+F480221	C45(I=28)
IYJP45-140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

液压原理图
Hydraulic principle diagram



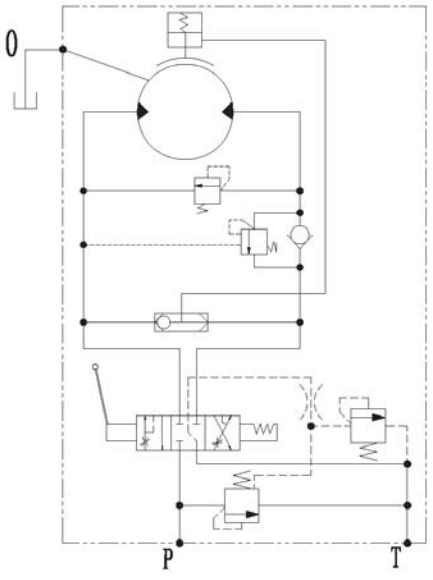
注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.



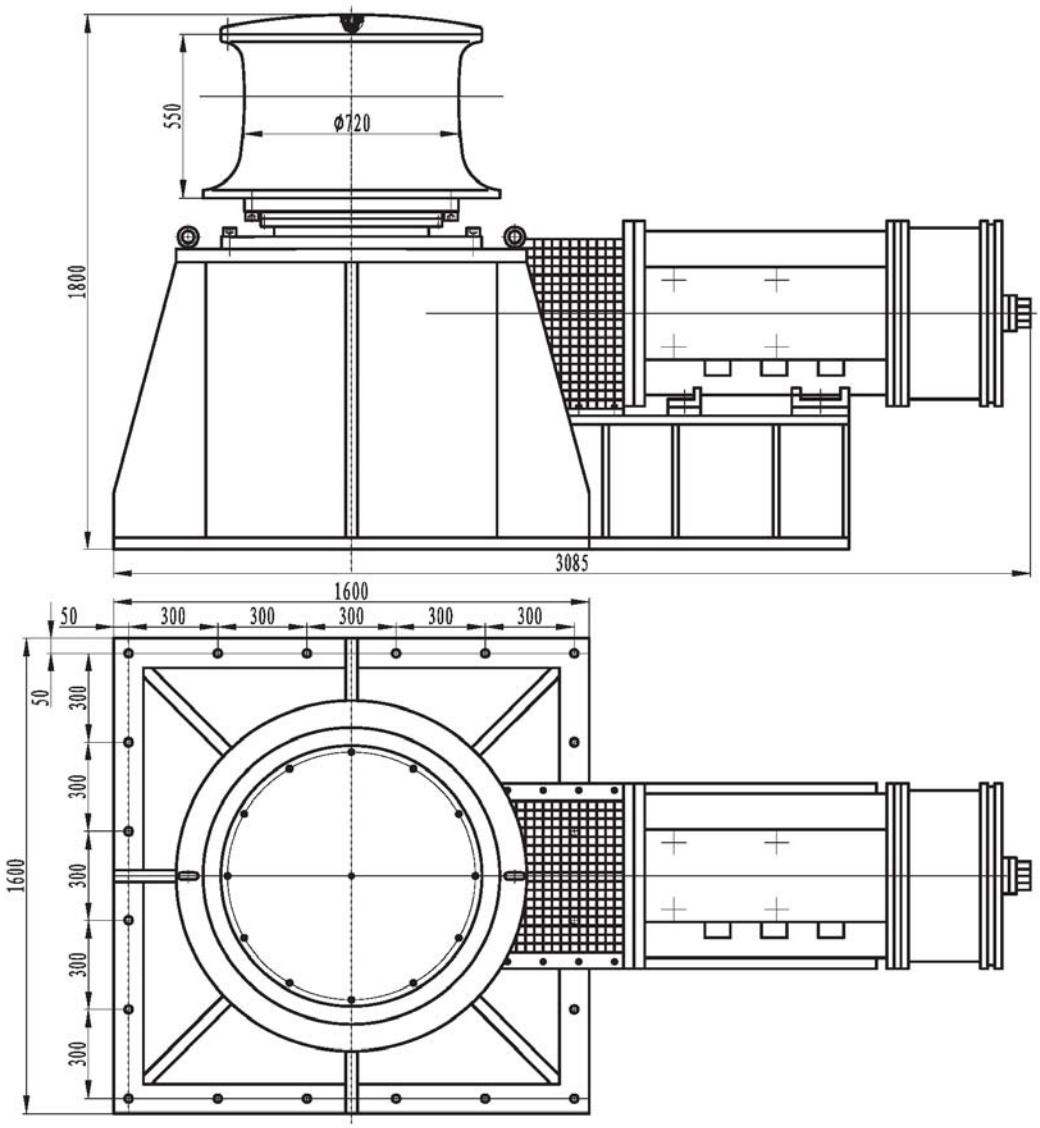
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Rope diameter (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil flow supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP79-240	240	10	36	14	46794	229	INM6-2000D90+F	C79(I=22)
IYJP79-260	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)

液压原理图 Hydraulic principle diagram



注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.



型号 Model	系缆负载 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)		
DJP988-300	300	20	40	YZ315L-4/8/16-H	415	50	89	135

注：1.表格里的外形尺寸均不包括电机尺寸，用户若所配的电机特殊，则联接部分的过度板和连接套需特殊加工。

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.

● IYM 系列液压起锚绞车

1、概述：

IYM 系列液压起锚绞车由具有制动和过载保护功能的阀组，液压马达、行星减速器、液压（手动）带式制动器、液压（手动）牙嵌式离合器、机架等部件组成。由于绞车自带阀组，它不但简化了液压系统而且提高了传动装置的工作可靠性，并可以使 HYM 型液压系泊绞车在提升和下放工作中运转均相当平稳，除此，它还具有起动和工作时效率高、能耗少、噪音低、外形美观、尺寸紧凑、经济性好等特点。本产品已广泛用于各式船舶中。

2、型号说明

IYM ＊－ ＊

- ＊ → 锚链直径（mm）
- ＊ → 行星减速器齿轮模数
- IYM → 意宁液压股份有限公司液压起锚绞车

3、型号举例：

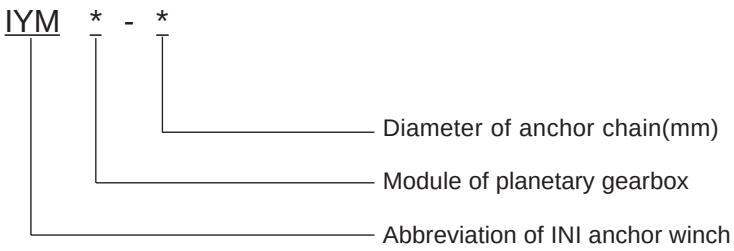
IYM4-Φ32 表示此绞车的行星减速器模数为 4，锚链直径为 32mm。

IYM series hydraulic anchor winch

1. Brief Introduction

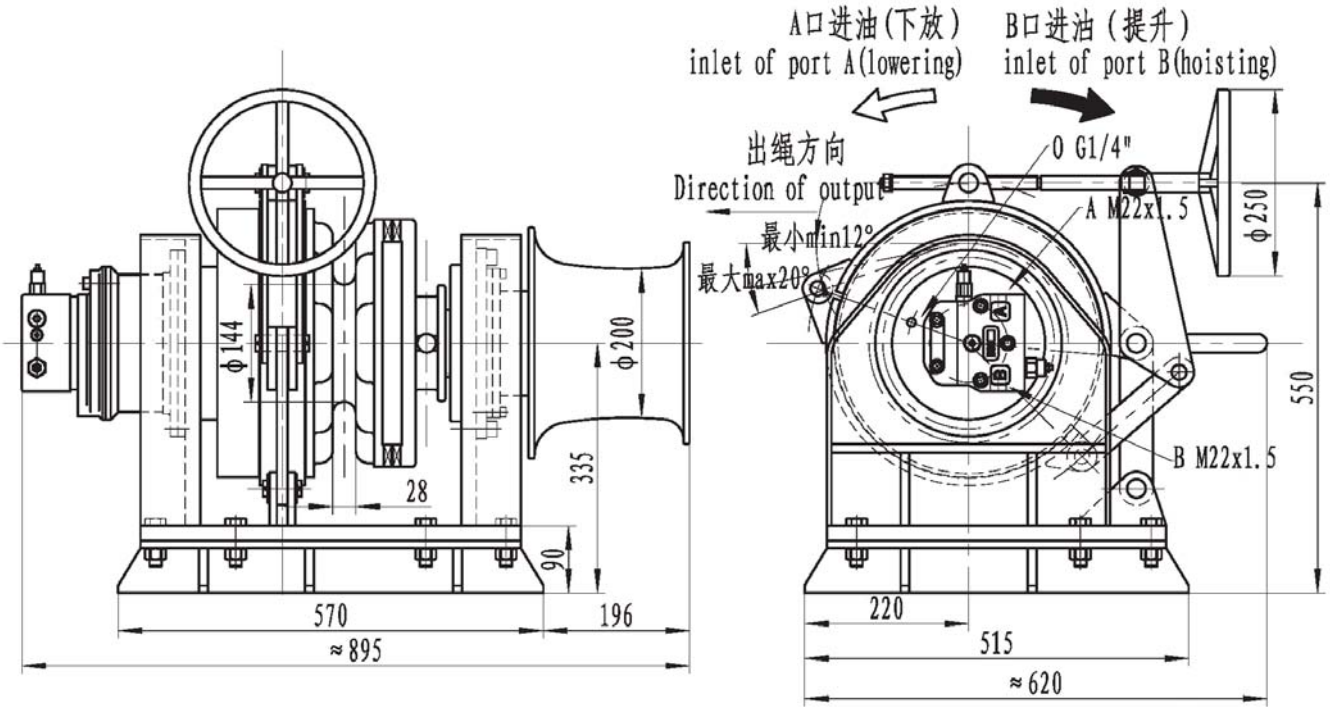
IYM series hydraulic anchor winches consist of valve block with braking and overload protection function,hydraulic motor, planetary gearbox, hydraulic/manual band brake,hydraulic/manual jaw clutch,frame and etc.
The wonch is fitted with valve bolck. It not only simplifies the hydraulic system,but also 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



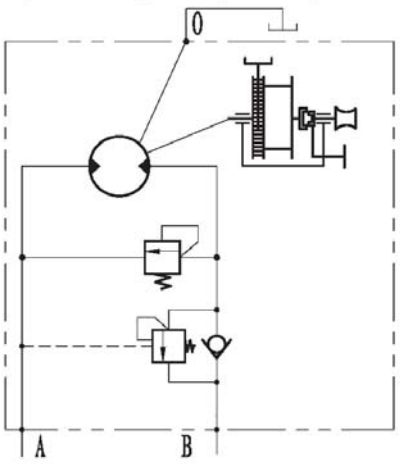
3. Example

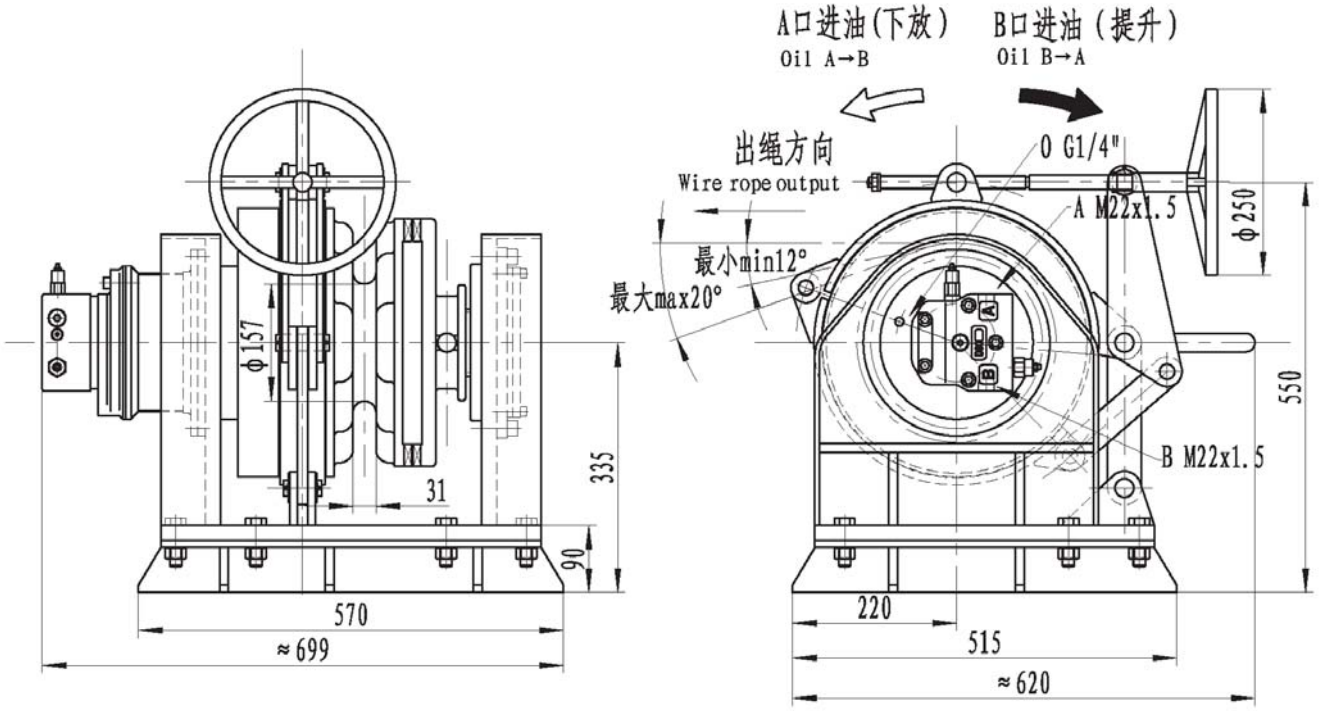
Model no IYM4-Ø32 means the module of the planetary gearbox is 4, and diameter of anchor chain is 32mm.



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-φ16	10.9	16.4	≥67	≥9	≤82.5	830.5	16	20	16

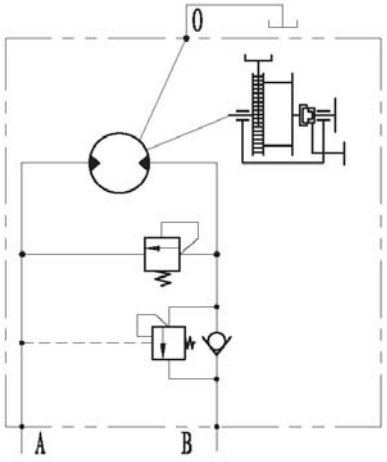
液压原理图
Hydraulic principle diagram

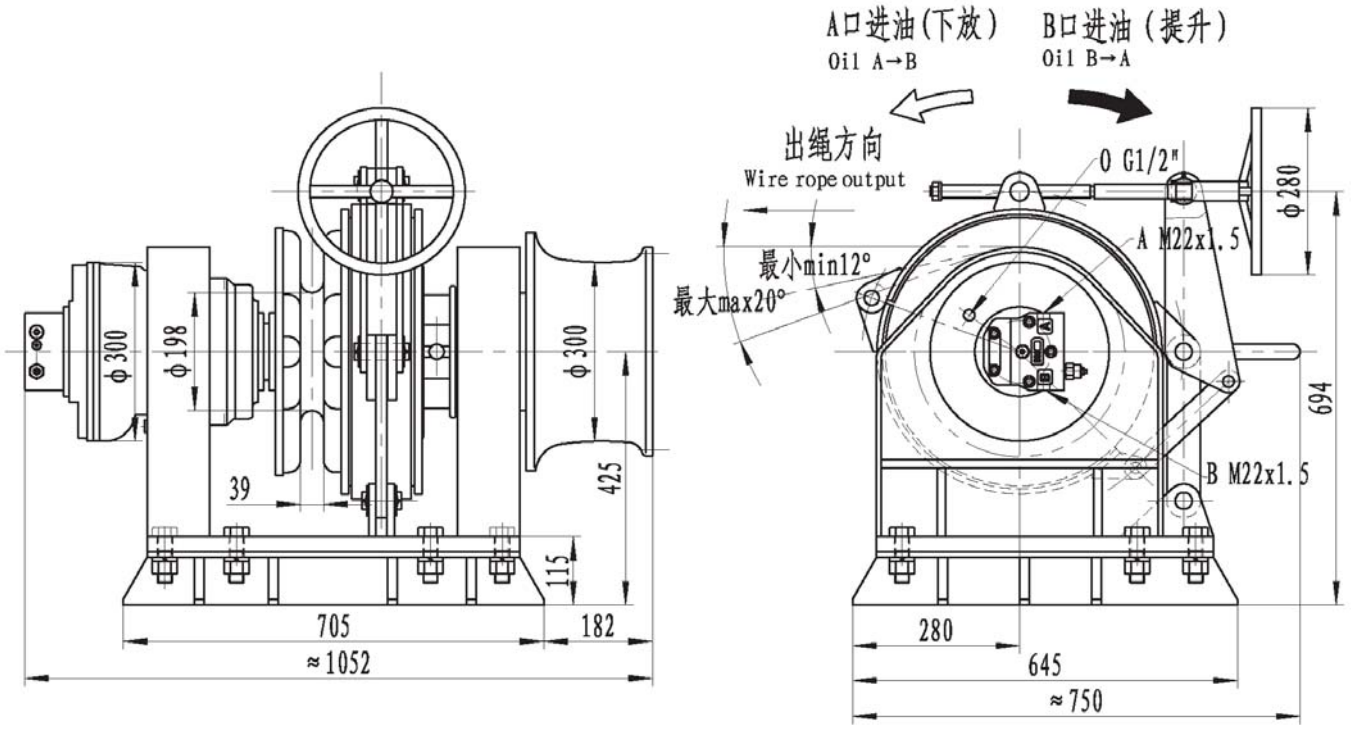




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM2.5-φ17.5	13	19.5	⩾80	⩾9	⩽82.5	1050.5	15	14	17.5

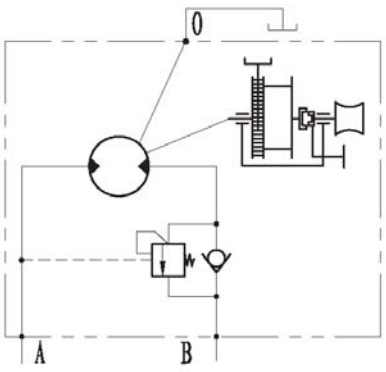
液压原理图
Hydraulic principle diagram

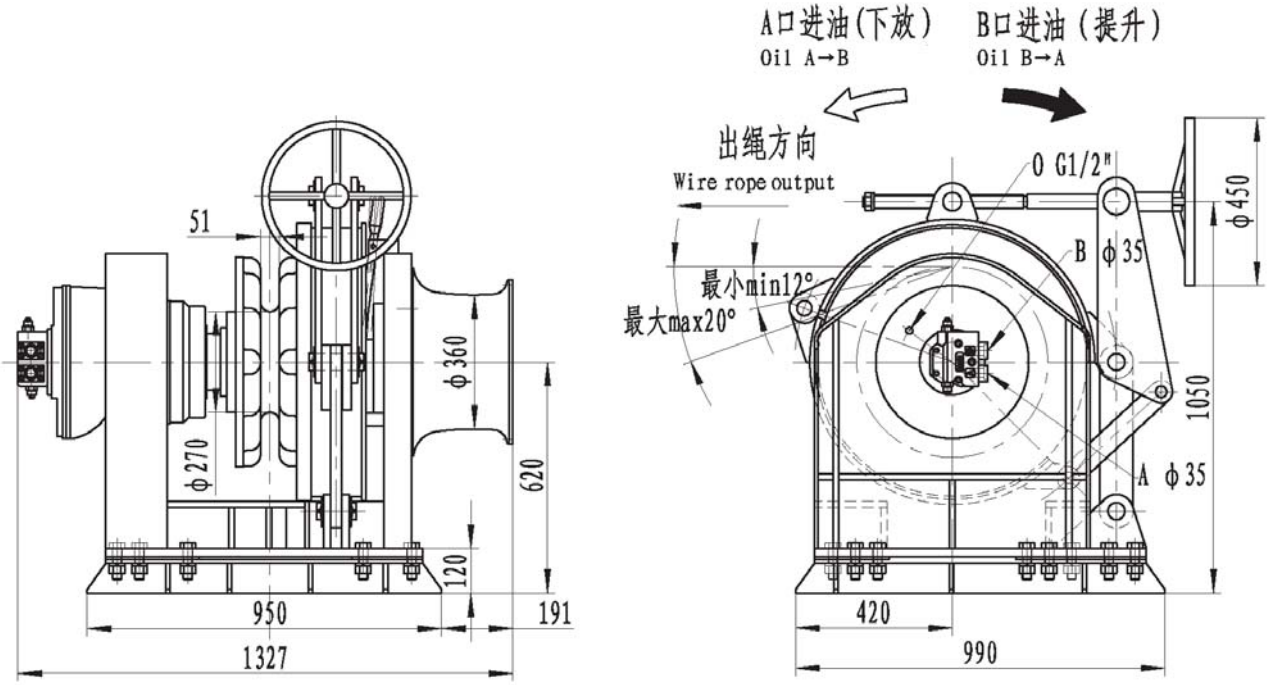




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM3-ϕ22	20.6	30.9	≥126	≥9	≤82.5	3107.5	15	31	22

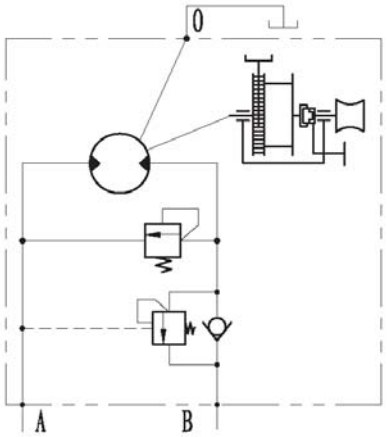
液压原理图
Hydraulic principle diagram

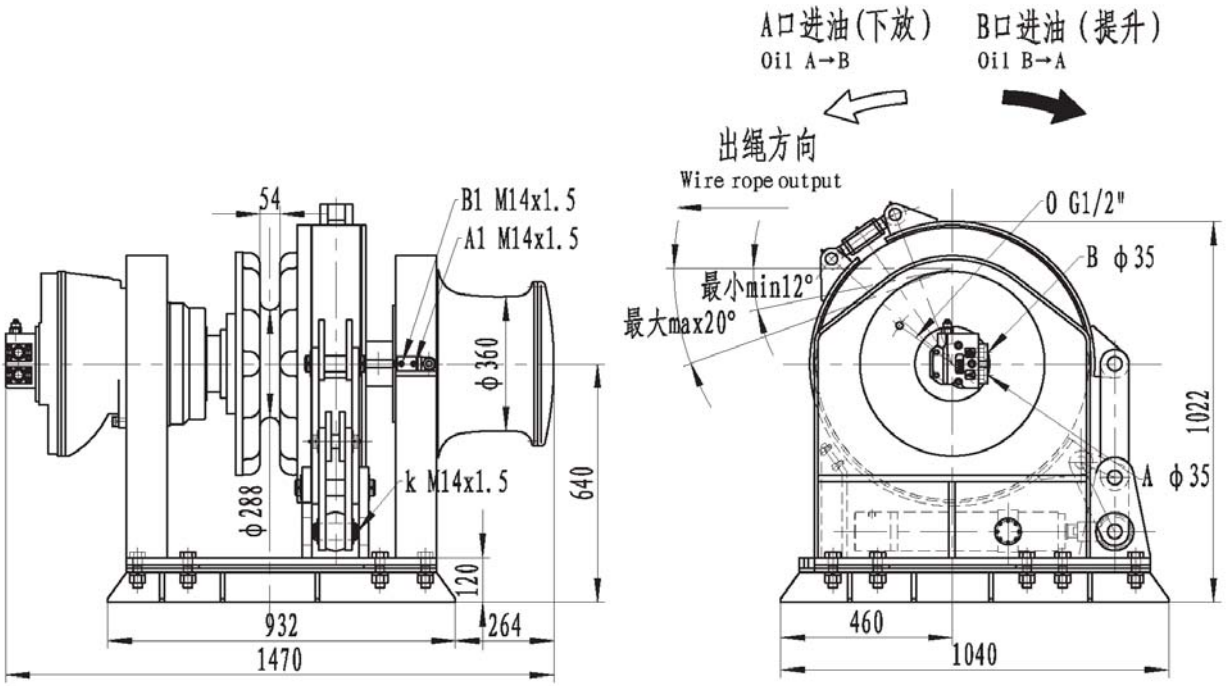




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM4-φ30	38.3	57.5	≥231	≥9	≤82.5	6580	14	46	30

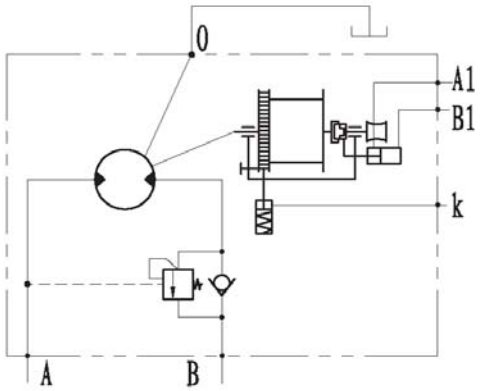
液压原理图
Hydraulic principle diagram

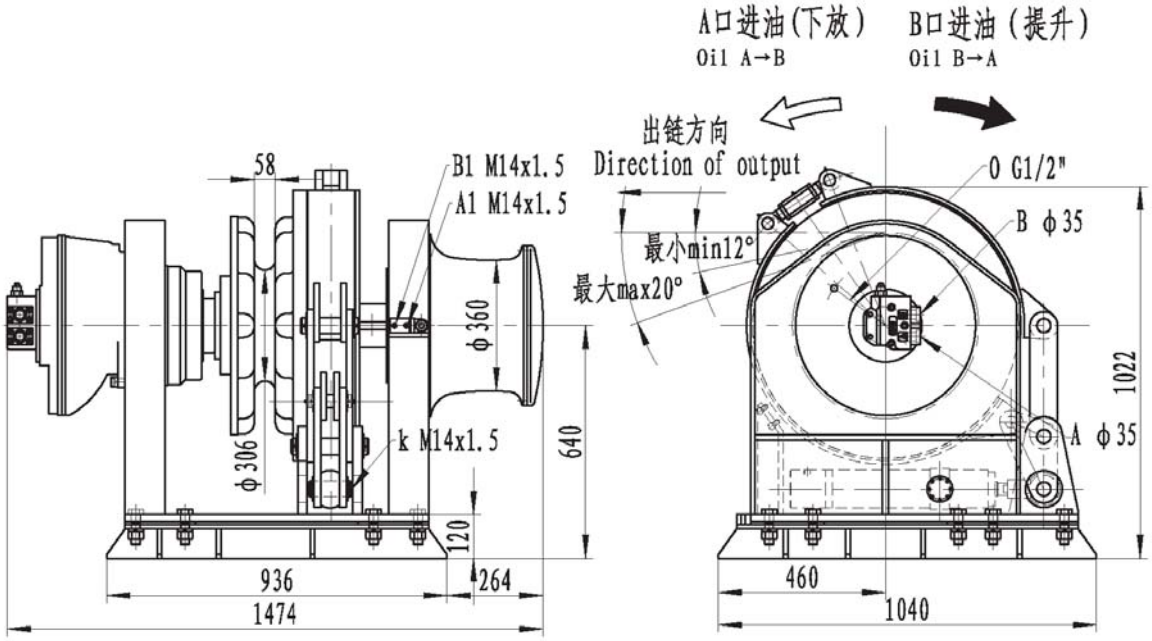




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM4-φ32	43.5	65.3	≥261	≥9	≤82.5	8170	12.5	53	32

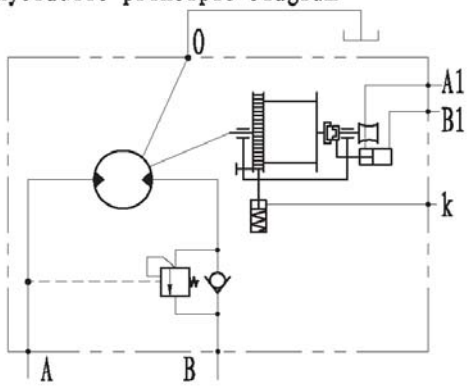
液压原理图
Hydraulic principle diagram

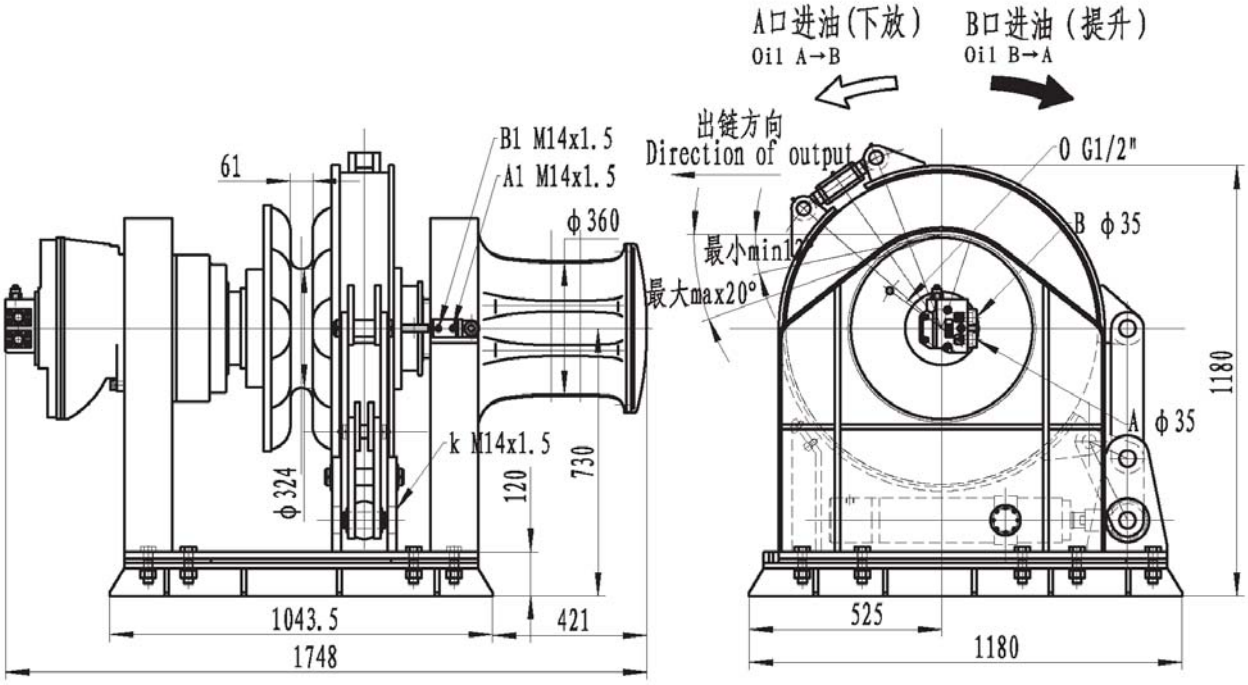




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM4-φ34	49.1	73.7	≥294	≥9	≤82.5	8987	12.5	55	34

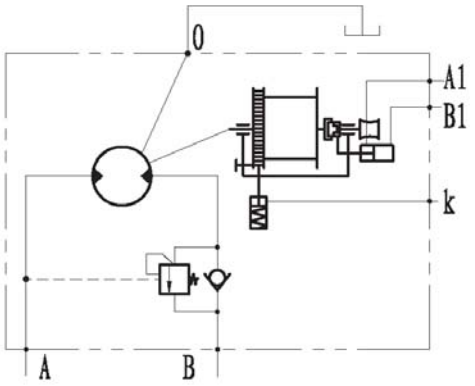
液压原理图
Hydraulic principle diagram

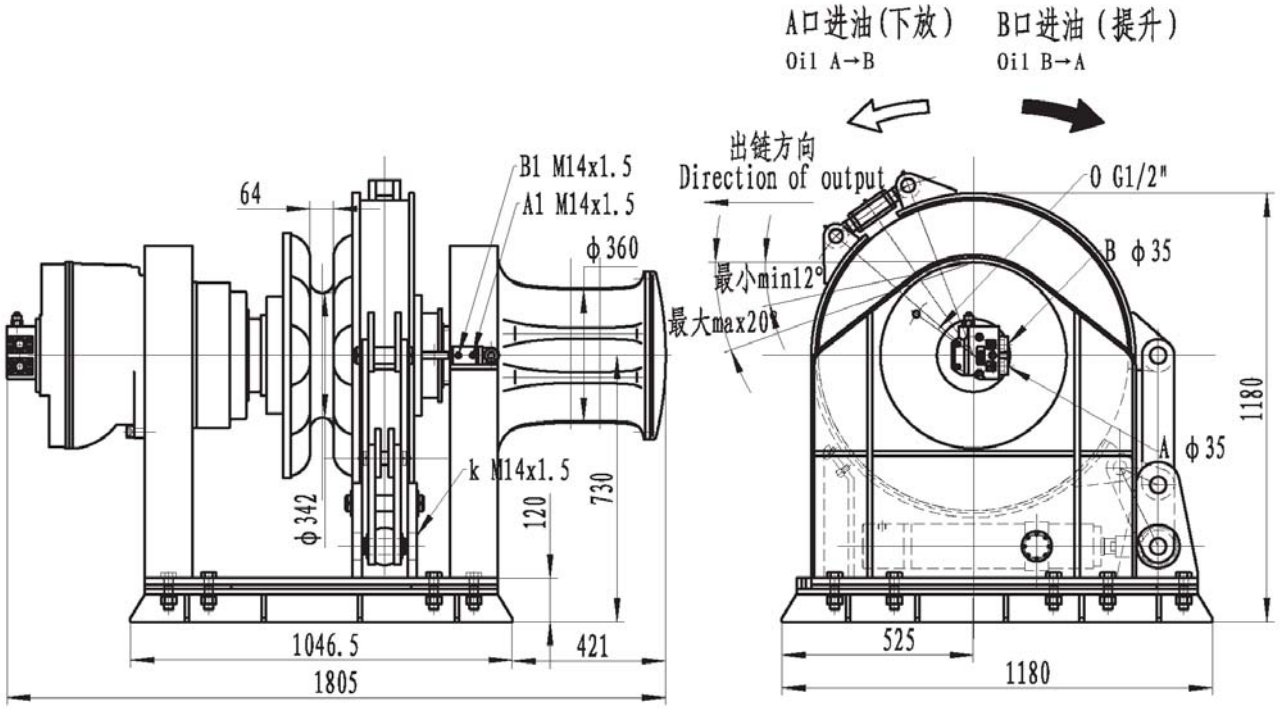




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM5-φ36	55.1	82.7	≥329	≥9	≤82.5	10035	14	60	36

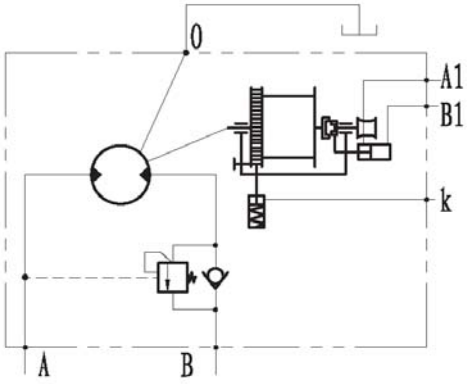
液压原理图
Hydraulic principle diagram

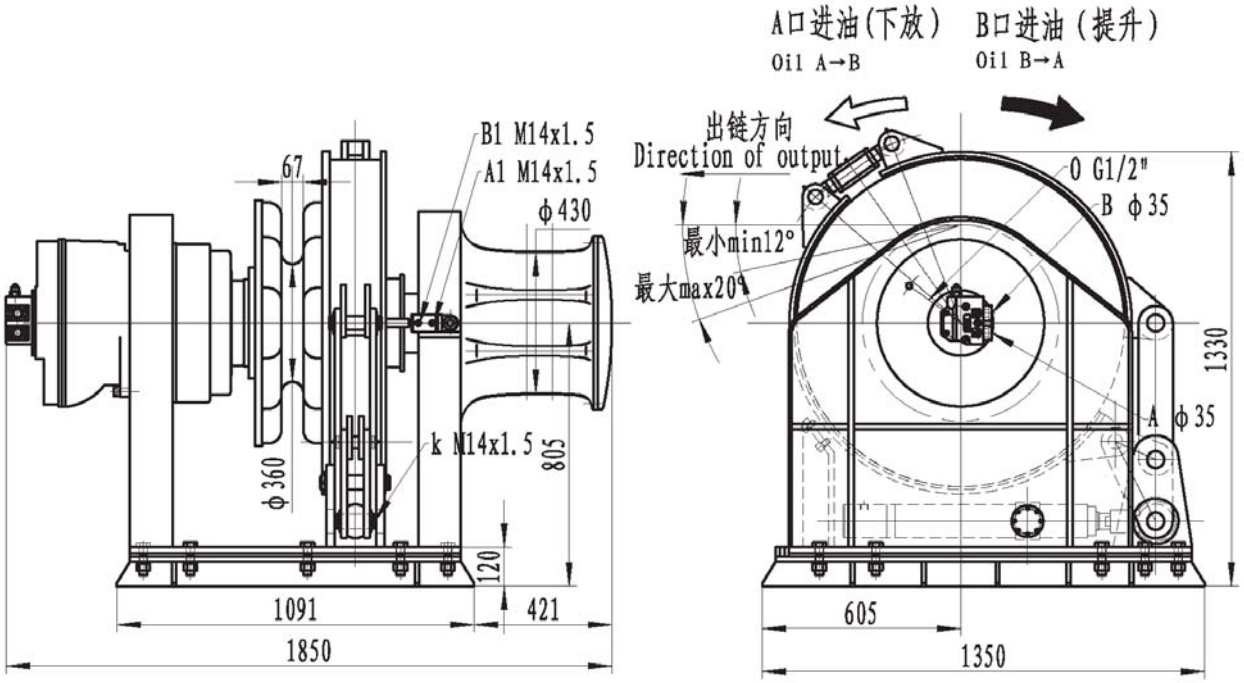




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM5-φ38	61.1	92.1	≥365	≥9	≤82.5	12560	14	70	38

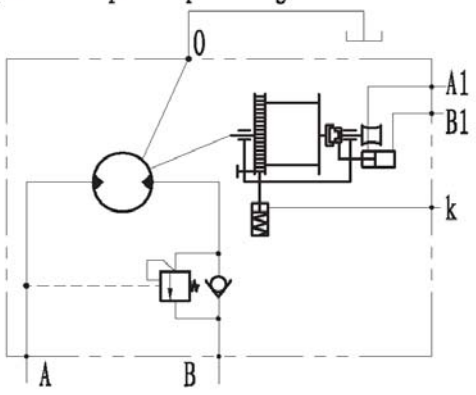
液压原理图
Hydraulic principle diagram

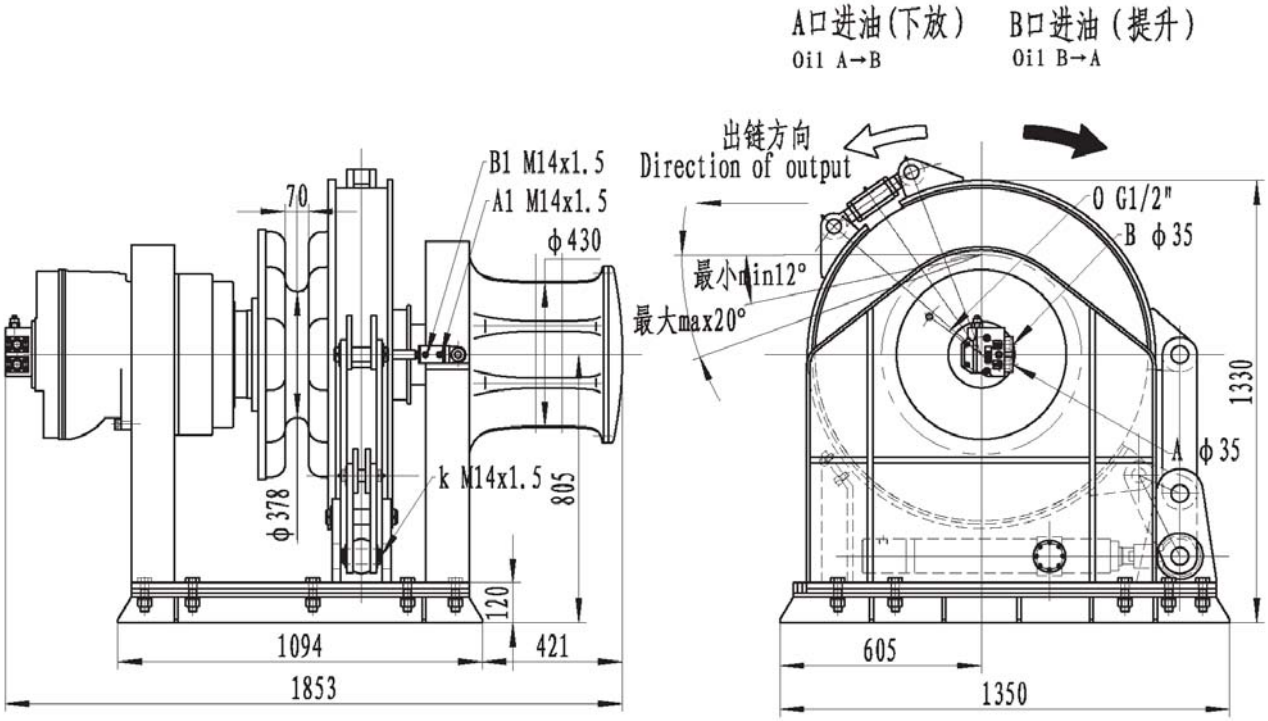




型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM6-φ40	68	102	≥402	≥9	≤82.5	13821.5	14	72	40

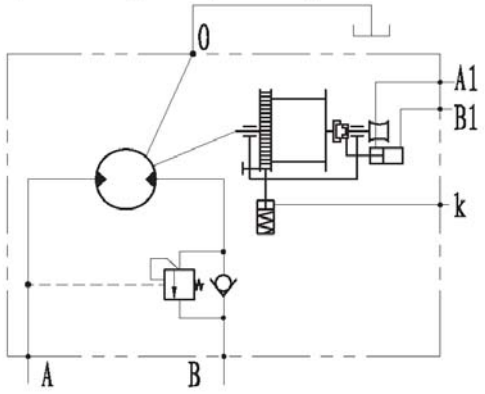
液压原理图
Hydraulic principle diagram



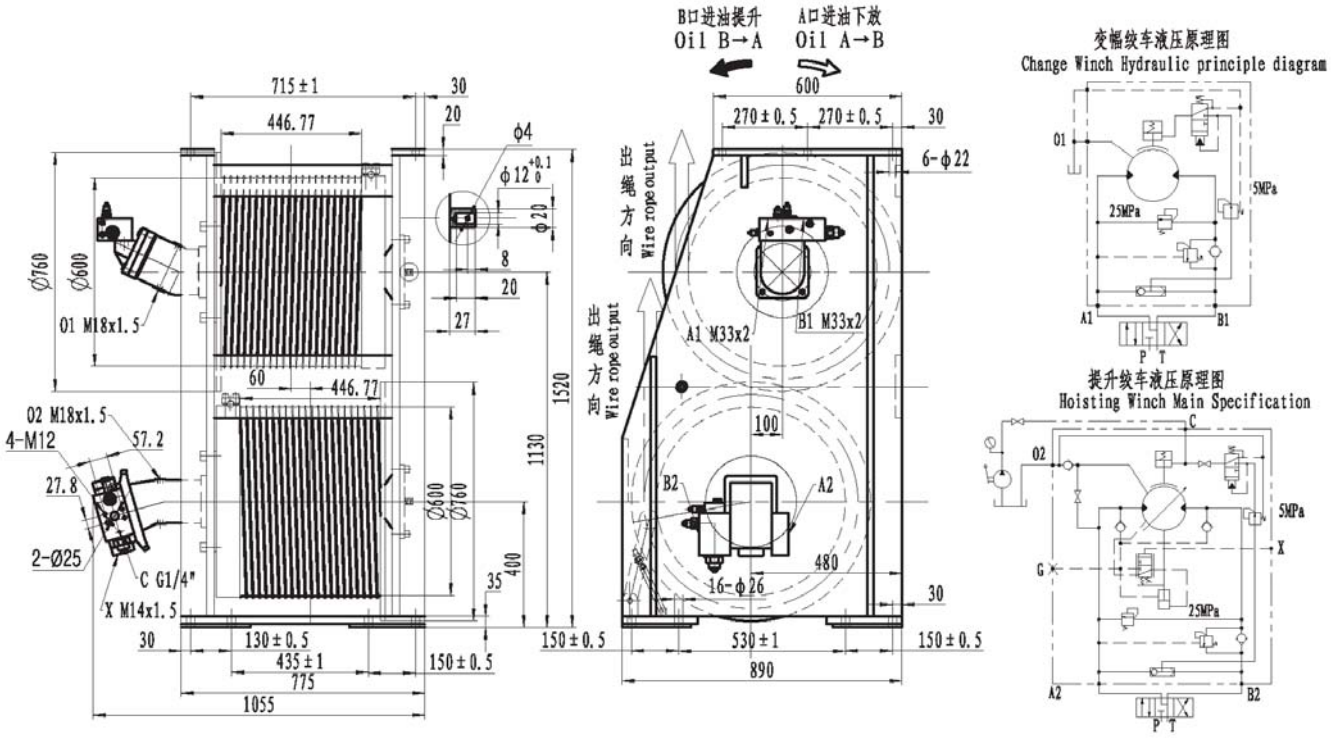


型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM6-φ42	75	112.5	≥442	≥9	≤82.5	16725.5	14	83	42

液压原理图
Hydraulic principle diagram



10T Crane Hydraulic Dual Winch



提升绞车主要技术参数

Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ344-58-84-20-ZPG	
第二层拉力	Pull on the 2nd layer(kN)	57.5	15
第一层绳速	Speed on the 1st layer(m/min)	33	68
工作压差	Work pressure diff. (MPa)	23	14
供油流量	Oil flow supply (L/min)	121	
钢丝绳直径	Rope diameter (mm)	20	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

变幅绞车主要技术参数

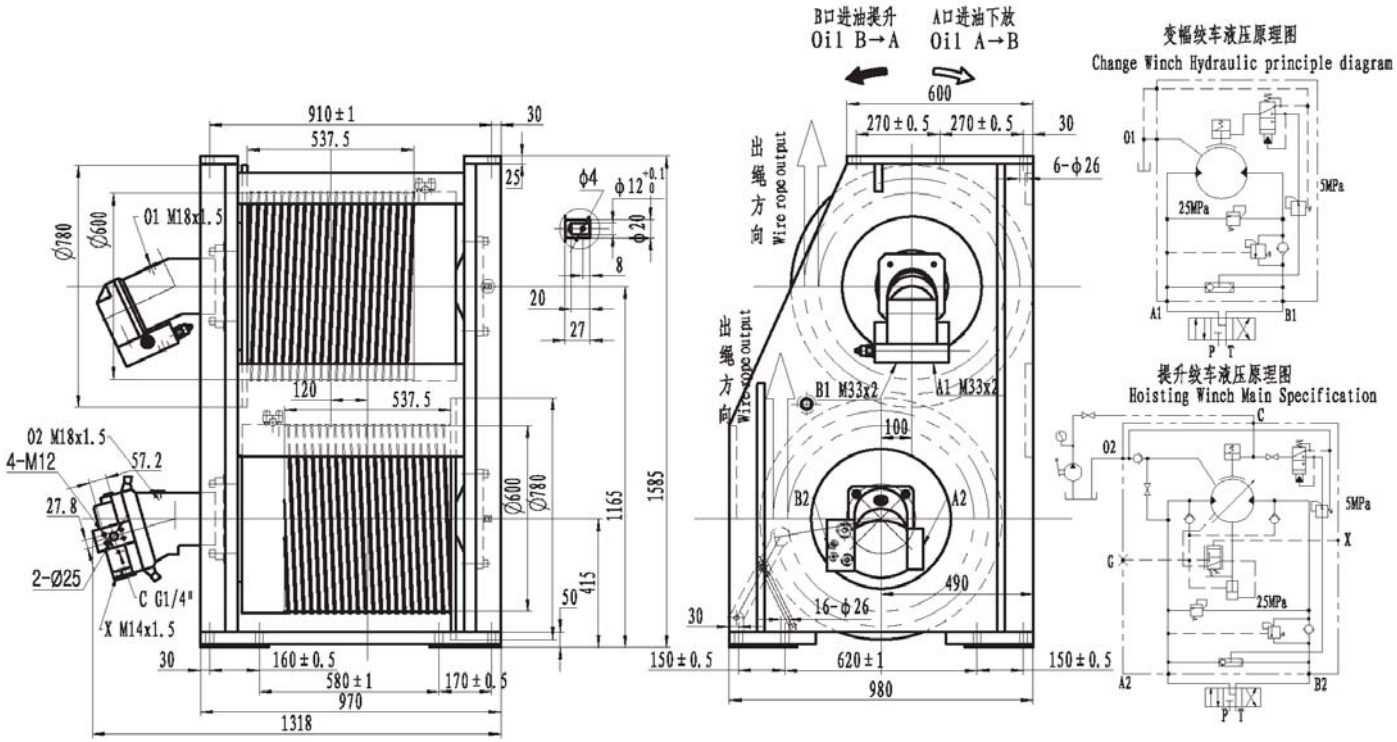
Change Winch Main Specification

型号	Model	IYJ344-58-84-20-ZPG	
第二层拉力	Pull on the 2nd layer(kN)	57.5	
第一层绳速	Speed on the 1st layer(m/min)	33	
工作压差	Work pressure diff. (MPa)	23	
供油流量	Oil flow supply (L/min)	121	
钢丝绳直径	Rope diameter (mm)	20	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

15T Crane Hydraulic Dual Winch



提升绞车主要技术参数

Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ344-86-84-24-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	86.3	30
第一层绳速	Speed on the 1st layer (m/min)	33	68
工作压差	Work pressure diff. (MPa)	24	17
供油流量	Oil flow supply (L/min)	163	
钢丝绳直径	Rope diameter (mm)	24	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

变幅绞车主要技术参数

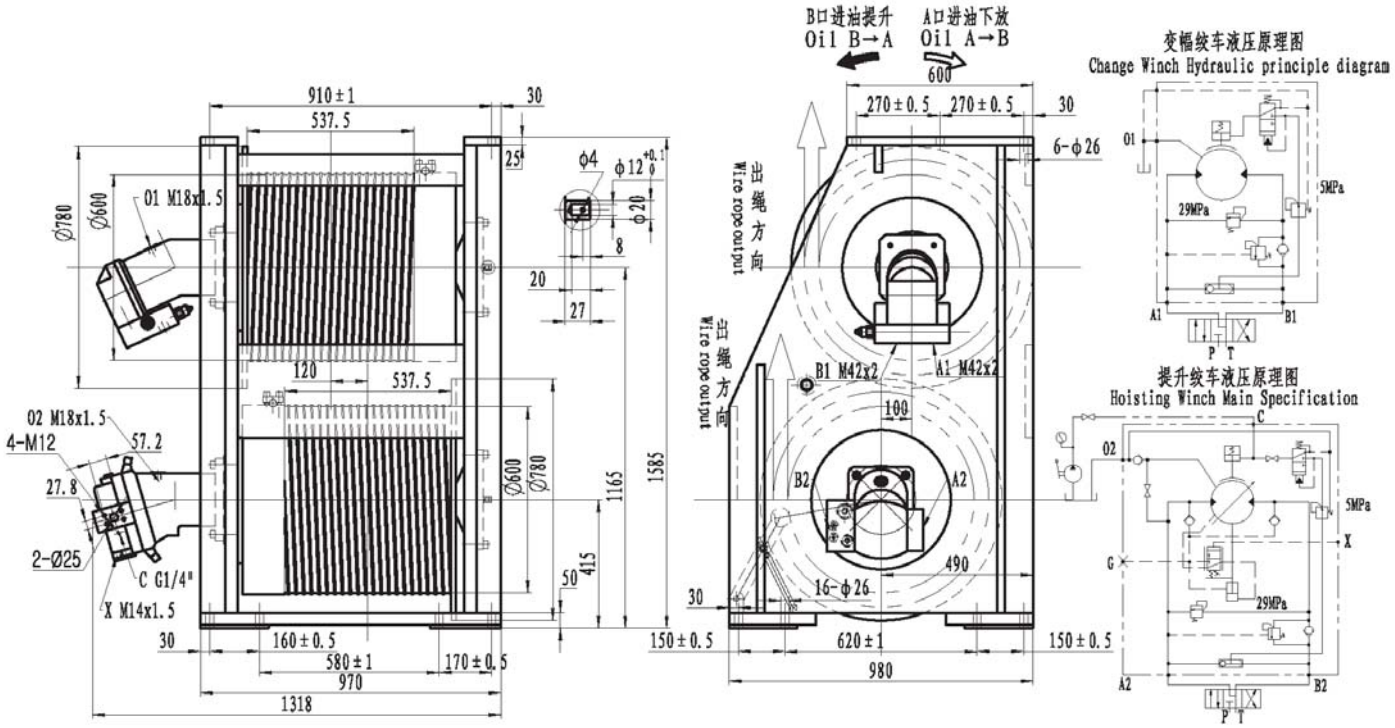
Change Winch Main Specification

型号	Model	IYJ344-86-84-24-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	86.3	
第一层绳速	Speed on the 1st layer (m/min)	33	
工作压差	Work pressure diff. (MPa)	24	
供油流量	Oil flow supply (L/min)	163	
钢丝绳直径	Rope diameter (mm)	24	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

20T Crane Hydraulic Dual Winch



提升绞车主要技术参数
Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ455-115-84-24-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	115	40
第一层绳速	Speed on the 1st layer (m/min)	39	72
工作压差	Work pressure diff. (MPa)	27	19
供油流量	Oil flow supply (L/min)	248	
钢丝绳直径	Rope diameter (mm)	24	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

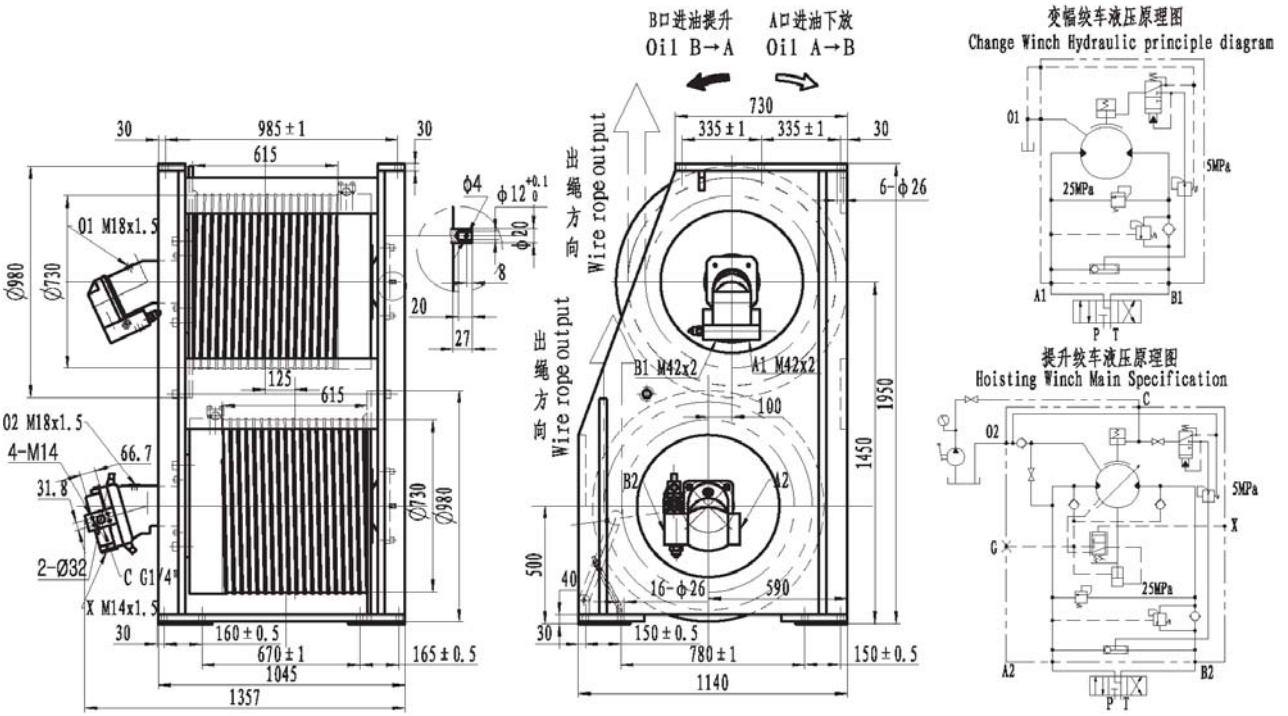
变幅绞车主要技术参数
Change Winch Main Specification

型号	Model	IYJ455-115-84-24-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	115	
第一层绳速	Speed on the 1st layer (m/min)	39	
工作压差	Work pressure diff. (MPa)	27	
供油流量	Oil flow supply (L/min)	248	
钢丝绳直径	Rope diameter (mm)	24	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	84

注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

25T Crane Hydraulic Dual Winch



提升绞车主要技术参数
Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ466-138-90-32-ZPG	
第二层拉力	Pull on the 2nd layer(kN)	138	27.8
第一层绳速	Speed on the 1st layer(m/min)	30	60
工作压差	Work pressure diff. (MPa)	23	23
供油流量	Oil flow supply (L/min)	273	
钢丝绳直径	Rope diameter (mm)	32	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

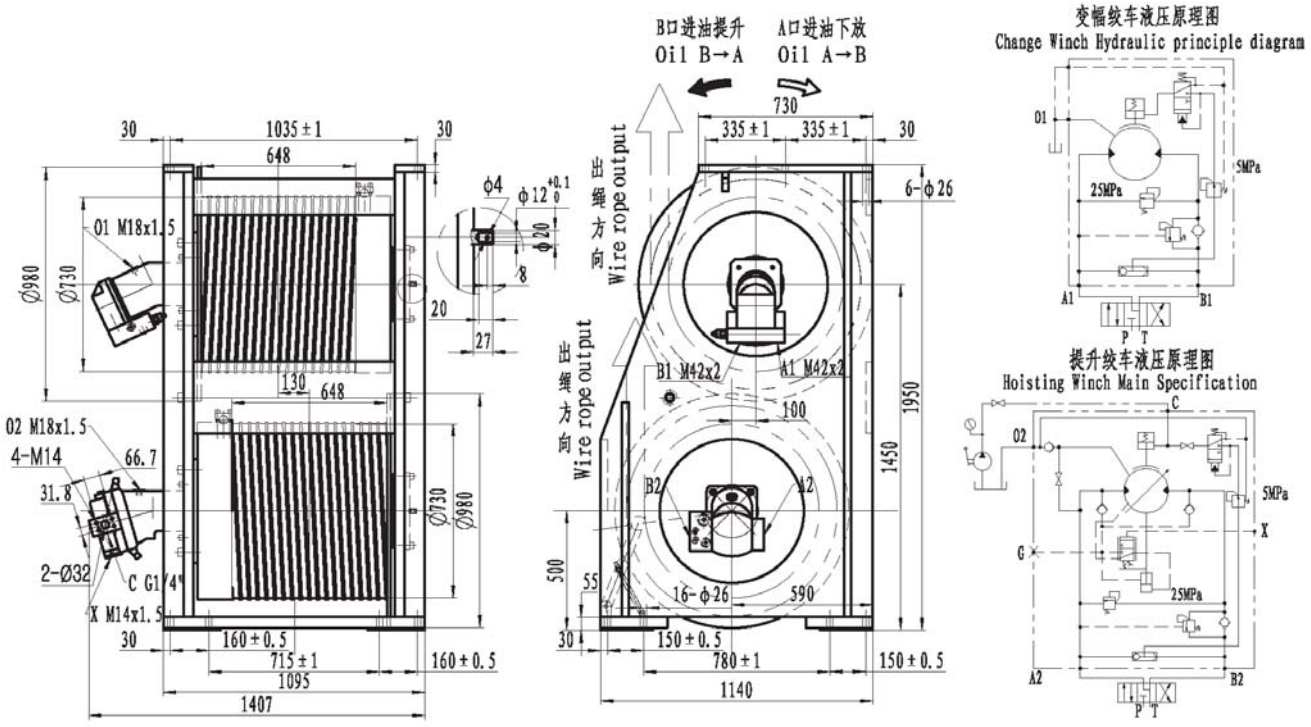
变幅绞车主要技术参数
Change Winch Main Specification

型号	Model	IYJ466-138-90-32-ZPG	
第二层拉力	Pull on the 2nd layer(kN)	138	
第一层绳速	Speed on the 1st layer(m/min)	26	
工作压差	Work pressure diff. (MPa)	21	
供油流量	Oil flow supply (L/min)	261	
钢丝绳直径	Rope diameter (mm)	32	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

注: 1.马达泄漏口 “O” 必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为 “Y” 型或 “H” 型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

30T Crane Hydraulic Dual Winch



提升绞车主要技术参数

Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ466-170-90-34-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	170	45
第一层绳速	Speed on the 1st layer (m/min)	32	68
工作压差	Work pressure diff. (MPa)	29	17
供油流量	Oil flow supply (L/min)	278	
钢丝绳直径	Rope diameter (mm)	34	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

变幅绞车主要技术参数

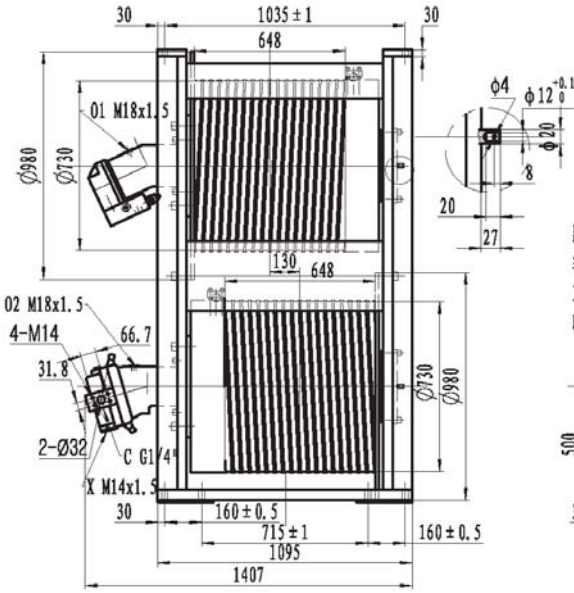
Change Winch Main Specification

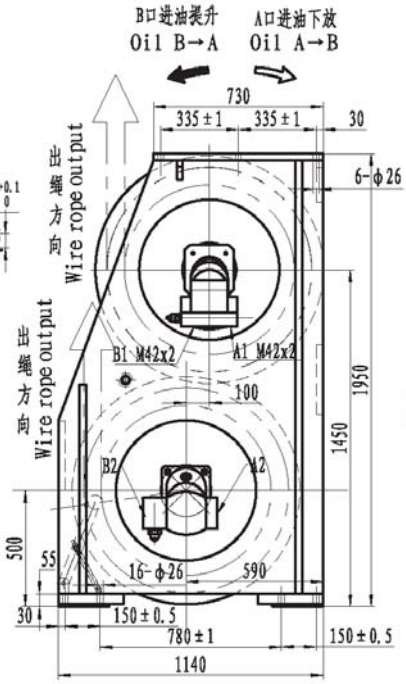
型号	Model	IYJ466-138-90-32-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	160	
第一层绳速	Speed on the 1st layer (m/min)	32	
工作压差	Work pressure diff. (MPa)	28	
供油流量	Oil flow supply (L/min)	278	
钢丝绳直径	Rope diameter (mm)	34	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

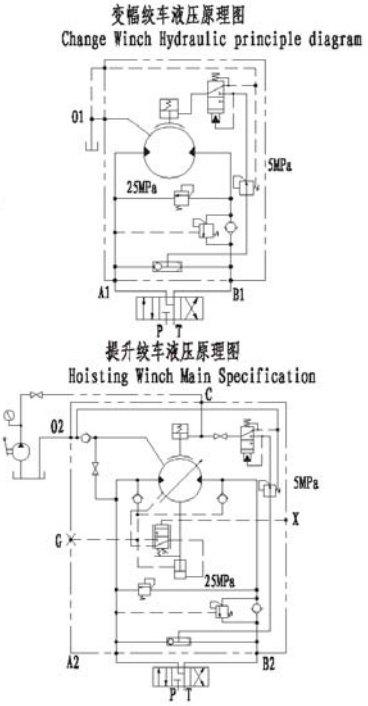
注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

35T Crane Hydraulic Dual Winch







提升绞车主要技术参数
Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ466-200-85-36-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	200	53
第一层绳速	Speed on the 1st layer (m/min)	27	56
工作压差	Work pressure diff. (MPa)	29	17
供油流量	Oil flow supply (L/min)	278	
钢丝绳直径	Rope diameter (mm)	36	
层数	layer	1	2
容绳量	Wire rope capacity (m)	40	85

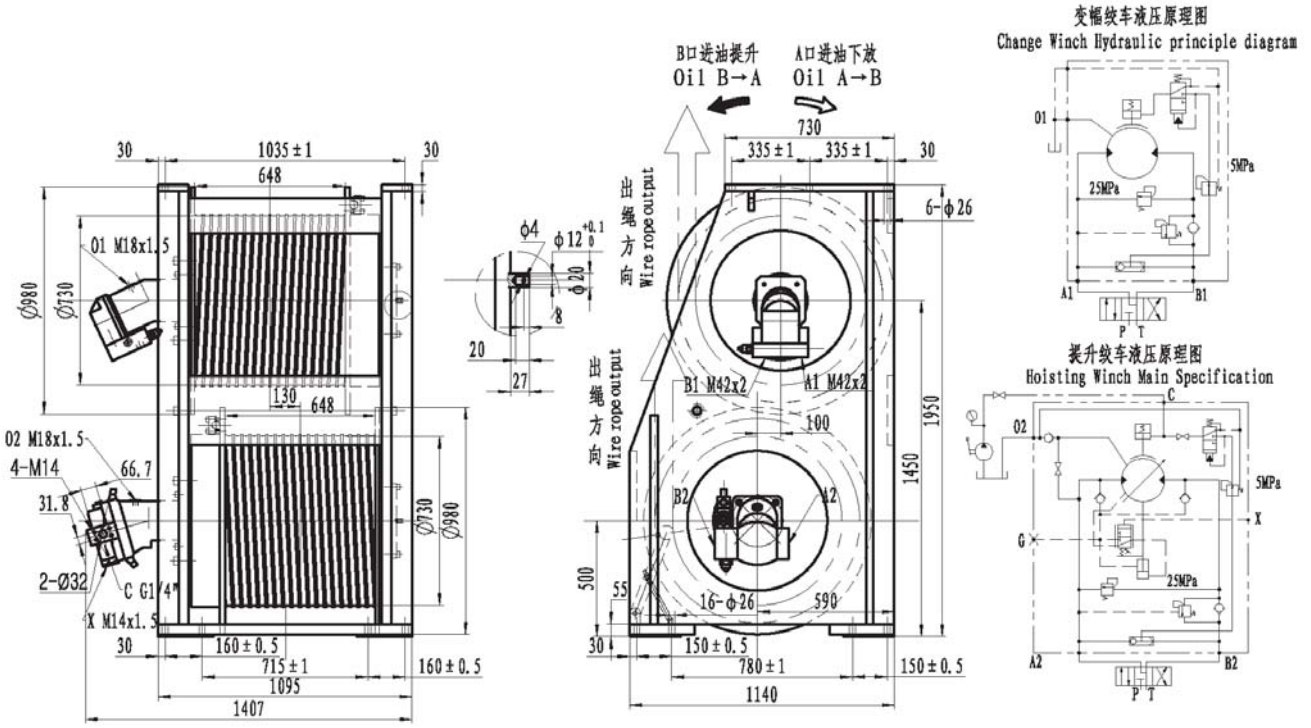
变幅绞车主要技术参数
Change Winch Main Specification

型号	Model	IYJ466-175-90-34-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	175	
第一层绳速	Speed on the 1st layer (m/min)	27	
工作压差	Work pressure diff. (MPa)	28	
供油流量	Oil flow supply (L/min)	261	
钢丝绳直径	Rope diameter (mm)	34	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

50T Crane Hydraulic Dual Winch



提升绞车主要技术参数

Hoisting Winch Hydraulic principle diagram

型号	Model	IYJ466-140-90-34-ZPG	
第三层拉力	Pull on the 3rd layer(kN)	140	40
第一层绳速	Speed on the 1st layer(m/min)	38	77.7
工作压差	Work pressure diff. (MPa)	29	17
供油流量	Supply oil flow(L/min)	278	
钢丝绳直径	Diameter of rope(mm)	34	
层数	layer	1	2
容绳量	Capacity of rope(m)	43	90

变幅绞车主要技术参数

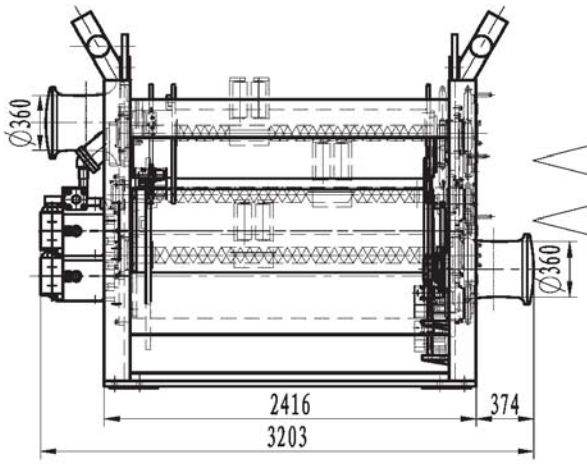
Change Winch Main Specification

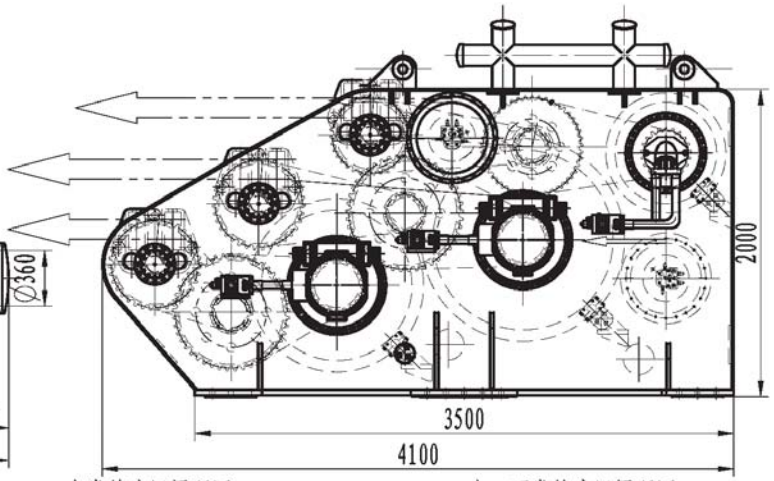
型号	Model	IYJ466-130-90-34-ZPG	
第二层拉力	Pull on the 2nd layer(kN)	130	
第一层绳速	Speed on the 1st layer(m/min)	38	
工作压差	Work pressure diff. (MPa)	28	
供油流量	Supply oil flow(L/min)	278	
钢丝绳直径	Diameter of rope(mm)	34	
层数	layer	1	2
容绳量	Capacity of rope(m)	43	90

注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

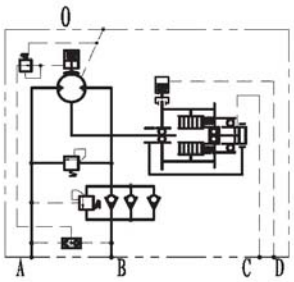
Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.
4.When there is no winch type available which meets your requirements,
we ask you to contact our sales department for a specific design.

Multi-drum Hydraulic Winch

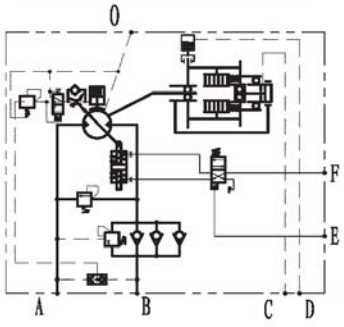


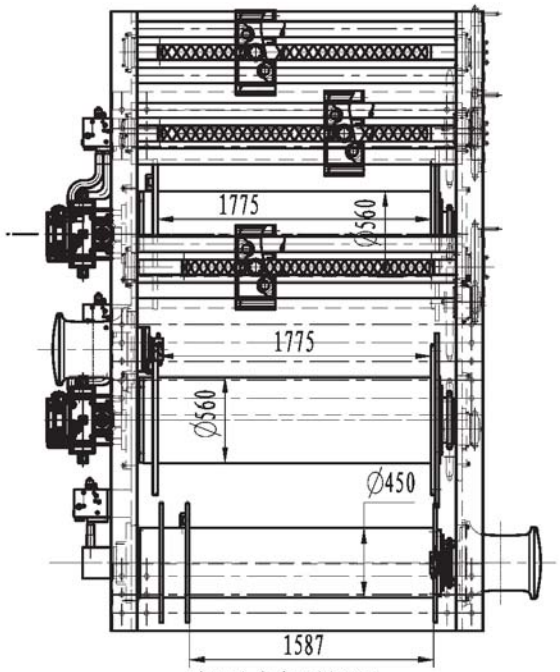


上卷筒液压原理图
Above drum
hydraulic principle diagram

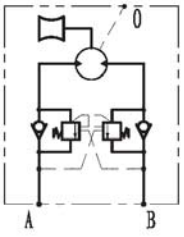


中、下卷筒液压原理图
Middle、under drum
hydraulic principle diagram





液压绞盘液压原理图
Capstan
hydraulic principle diagram



绞盘主要技术性能参数
Capstan Main Specification

工作拉力 Working pull(kN)	40
工作绳速 Working speed(m/min)	20
排量 Displacement(mL/r)	3955
系统额定压力 System rated pressure(MPa)	16
液压马达二作压差 Working pressure diff.(MPa)	14.7
适用钢丝绳直径 Diameter of rope(mm)	20 24
泵流量 Pump flow(L/min)	70
减速机型号 Planetary gearbox type	C4C(i=7)
马达型号 Hydraulic motor type	INM2 600D12022

上卷筒三要技术性能参数
Above Drum Main Specification

第五层额定拉力 Rated working pull fifth layer(kN)	100
第五层钢丝绳速度 Speed fifth layer(m/min)	60
卷筒排量 Drum displacement(mL/r)	12046.14
系统额定压力 System rated pressure(MPa)	23
液压马达工作压差 Working pressure diff.(MPa)	21
适用钢丝绳直径 Diameter of rope(mm)	22
钢丝绳层数 Number of rope layers	5
容绳量 Capability of drum(m)	600
泵的最大流量 Pump max.flow(L/min)	395(η v=0.9)
减速机型号 Planetary gearbox type	IGT60W3-B67(i=66.923)
马达型号 Hydraulic motor type	A2PE180/6.1WVZL10D480111
总功率 Power	147

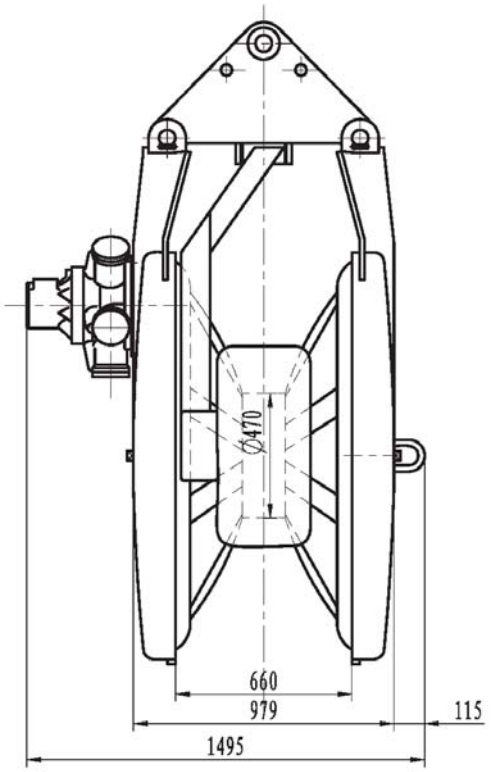
中卷筒主要技术性能参数
Middle Drum Main Specification

第五层额定拉力 Rated working pull fifth layer(kN)	200	100
第五层钢丝绳速度 Speed fifth layer(m/min)	30	60
卷筒排量 Drum displacement(mL/r)	30466.86	15233.43
系统额定压力 System rated pressure(MPa)	23	
液压马达工作压差 Working pressure diff.(MPa)	21	
适用钢丝绳直径 Diameter of rope(mm)	24	
钢丝绳层数 Number of rope layers	10	
容绳量 Capability of drum(m)	1800	
泵的最大流量 Pump max.flow(L/min)	416(η v=0.9)	
减速机型号 Planetary gearbox type	IGT110W3-B61(i=60.93)	
马达型号 Hydraulic motor type	HLASM500MA-00	
总功率 Power	147	

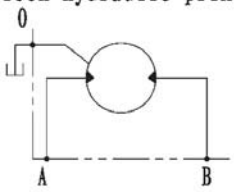
下卷筒主要技术性能参数
Under Drum Main Specification

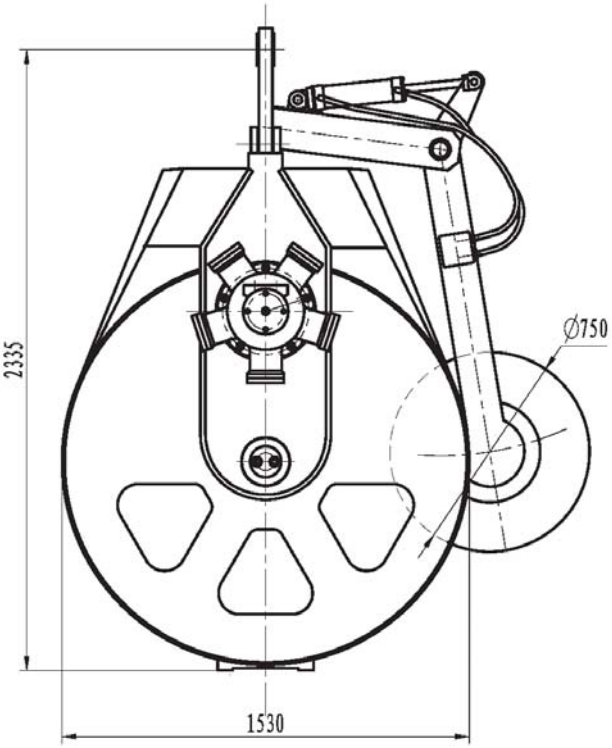
第五层额定拉力 Rated working pull fifth layer(kN)	200	100
第五层钢丝绳速度 Speed fifth layer(m/min)	30	60
卷筒排量 Drum displacement(mL/r)	30466.86	15233.43
系统额定压力 System rated pressure(MPa)	23	
液压马达工作压差 Working pressure diff.(MPa)	21	
适用钢丝绳直径 Diameter of rope(mm)	24	
钢丝绳层数 Number of rope layers	6	
容绳量 Capability of drum(m)	900	
泵的最大流量 Pump max.flow(L/min)	416(η v=0.9)	
减速机型号 Planetary gearbox type	IGT110W3-B61(i=60.93)	
马达型号 Hydraulic motor type	HLASM500MA-00	
总功率 Power	147	

56 inch Power Block

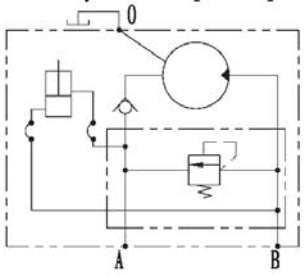


动力滑车液压原理图
Power block hydraulic principle diagram





压辊轮液压原理图
Clip roller hydraulic principle diagram



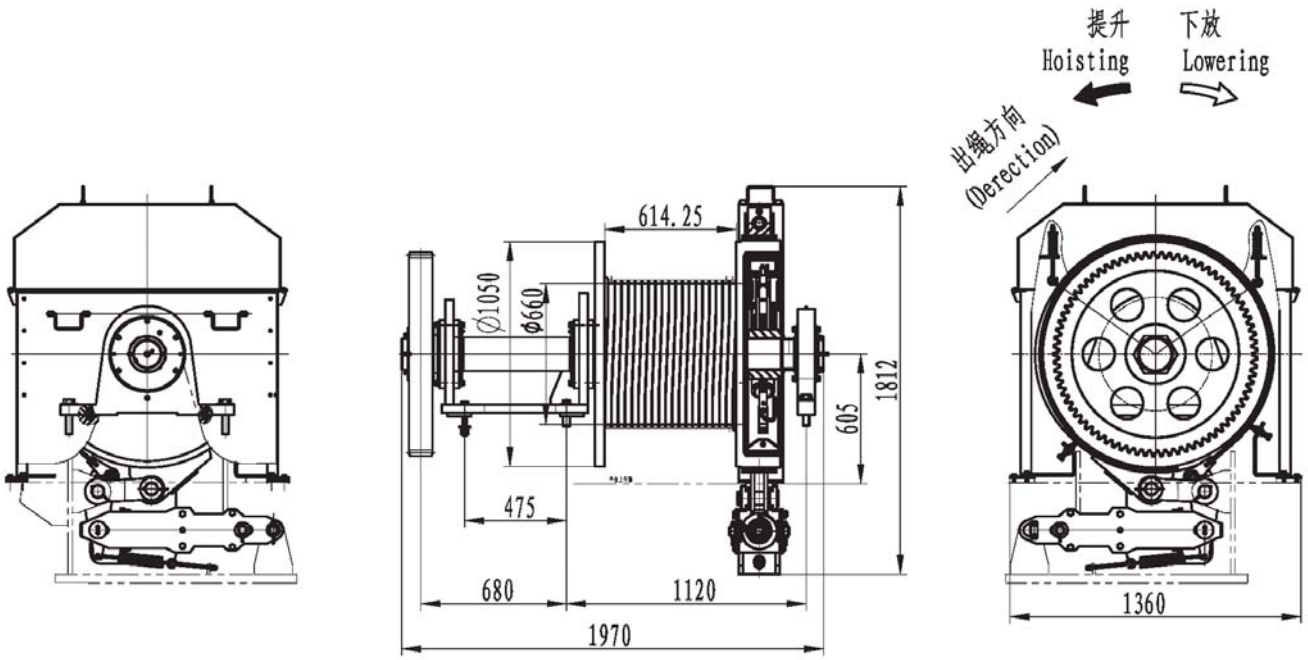
动力滑车主要技术性能参数
Power block main specification

工作拉力 Working pull(kN)	70
绳速 Speed(m/min)	80
卷筒排量 Drum displacement(mL/r)	11700
系统额定压力 System rated pressure(MPa)	18
工作压差 Working pressure diff.(MPa)	16
泵理论流量 Pump flow(L/min)	381(η v=0.9)
液压马达型号 Hydraulic motor type	MRH-1500
传动比 ratio	i=7.65

压辊轮三要技术性能参数
Clip roller main specification

压紧力 Working pull(N)	500
输出转速 Speed(r/min)	42

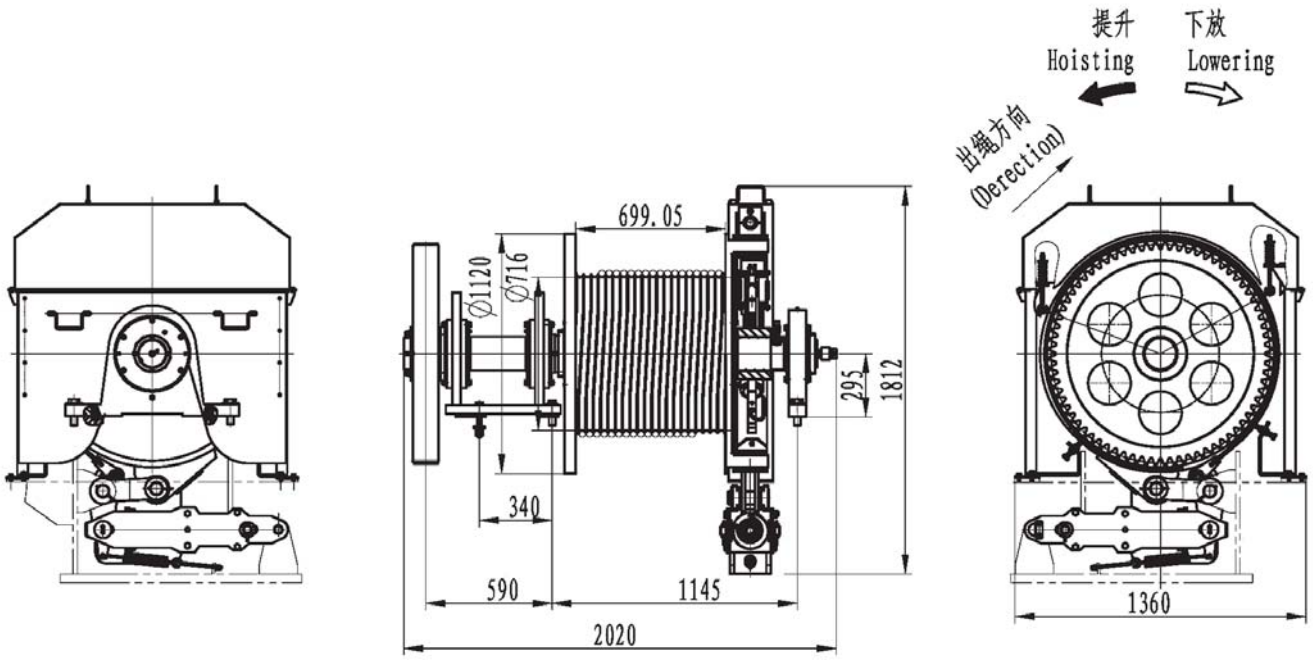
强夯专用卷扬



主要技术性能参数 (Main Specifition)

不带门架时第一层最大拉力 Max.full on the 1st layer(kN)	112.5
带门架时第一层最大拉力 Max.full on the 1st layer(kN)	140
适用钢丝绳直径 Rope diameter(mm)	30
钢丝绳层数 Number of rope layers	5
容绳量 Drum capacity(m)	240

强夯专用卷扬



主要技术性能参数 (Main Specifition)

不带门架时第一层最大拉力 Max.full on the 1st layer(kN)	130
带门架时第一层最大拉力 Max.full on the 1st layer(kN)	162.5
适用钢丝绳直径 Rope diameter(mm)	32
钢丝绳层数 Number of rope layers	5
容绳量 Drum capacity(m)	275

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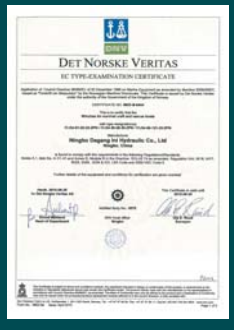
企业证书
Company Certificate



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