iNi® 意宁液压
INI HYDRAULIC

海工、船舶、渔船配套产品
Products used offshore application,
ship and fishing boats

>>> Http: //www.china-ini.com

液压门户

2015 Catalogue

[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21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 21 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

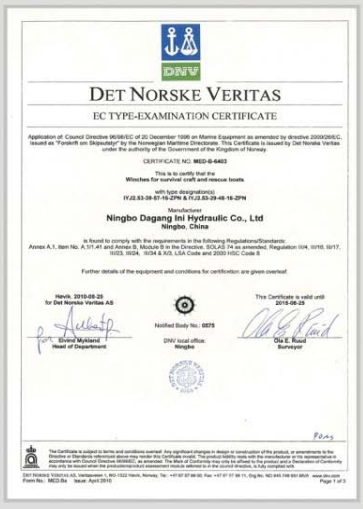
出口印尼的金枪鱼围网捕鱼船多卷筒绞车和动力滑车

产品展示 & 应用
Product Shows & Applications

为荷兰港口定制1600吨电动海洋浮吊绞车

产品展示 & 应用
Product Shows & Applications

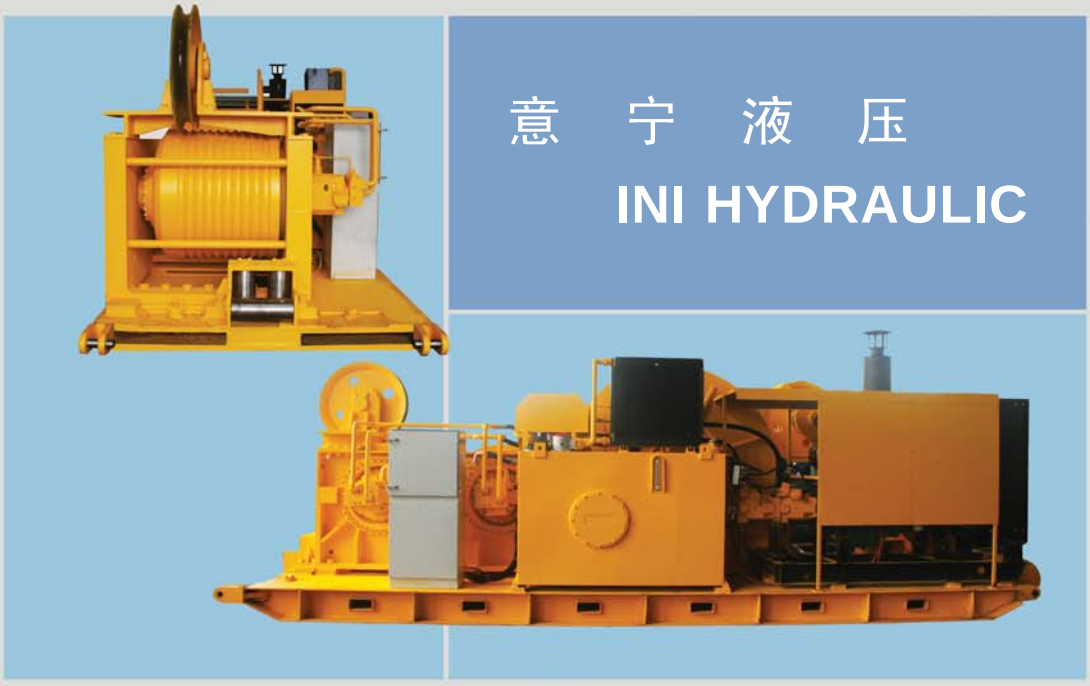
中国首张挪威船级社（DNV）抛落艇绞车型式认可证书



产品展示 & 应用
Product Shows & Applications

为英国石油（BP）公司顶级海上石油平台配套专用液压绞车

国内首台 150 吨“恒涨力拖曳绞车”出口俄罗斯



产品展示 & 应用
Product Shows & Applications

亚洲一流的海工、船舶液压、电动设备供应商

缆绳绞车

恒涨力电动电缆绞车

液压锚机

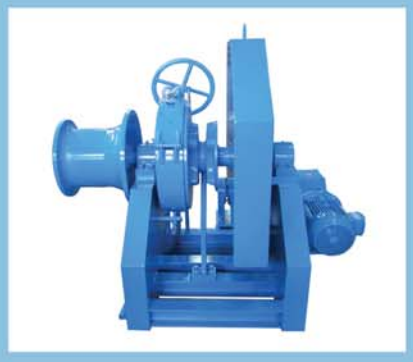
iNi® 意宁液压
INI HYDRAULIC

30T 电动系泊绞车

意宁公司生产的各种液压、电动绞盘

产品展示 & 应用
Product Shows & Applications

意宁公司生产的各种液压系泊绞车







意 宁 液 压

INI HYDRAULIC

产品展示 & 应用
Product Shows & Applications

意宁公司出口到荷兰、英国、挪威的液压绞车

产品展示 & 应用
Product Shows & Applications

意宁公司出口到荷兰、英国、挪威的液压绞车

意 宁 液 压

INI HYDRAULIC

产品展示 & 应用
Product Shows & Applications

意宁公司生产的各种液压泵站









75kw 变频电机驱动的恒涨力电缆绞车及控制系统

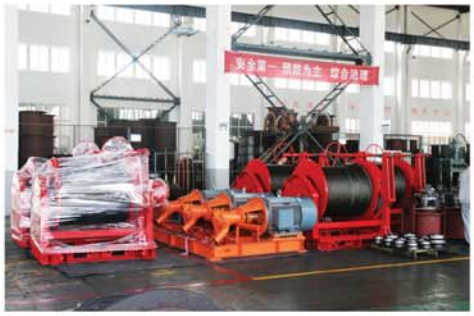


产品展示 & 应用
Product Shows & Applications

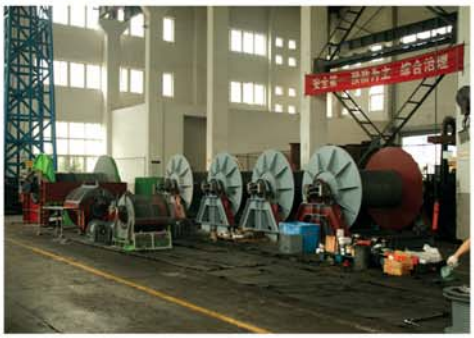
为绞吸式、斗轮式、履带斗轮式挖泥船配套的液压或电动成套传动装置

产品展示 & 应用
Product Shows & Applications

意宁公司装配现场





液压马达和齿轮箱部件





[目录] Contents

IYJ 系列船用起重液压绞车

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，该产品可广泛用于船舶甲板、海洋工程等设备中，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、英国、美国、荷兰等国家和地区。

2、型号说明

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)。

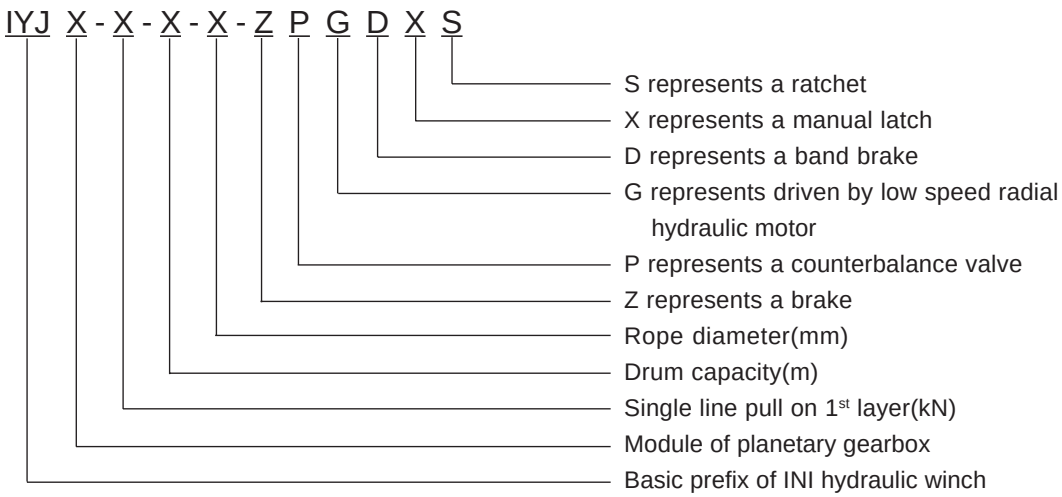
e. 本系列绞车可带压绳机构、最后三圈钢丝绳防脱绳报警装置、排绳器、测速轴以及离合器(均为选项，用户可根据实际情况订合同时具体注明)。

IYJ Hydraulic Ship Application Jack-up 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 deck machinery and offshore applicatron. 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, UK, US, Netherlands and so on.

2. Model Options

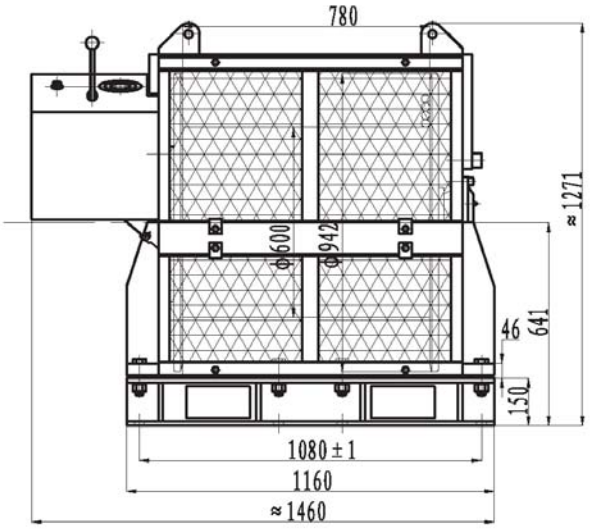


3. Options Example

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.

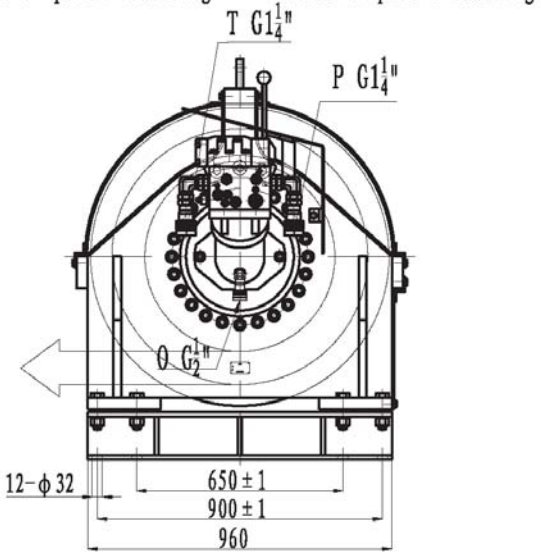
4. Parameter Description

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.



B口进油提升 inlet of port B-hoisting

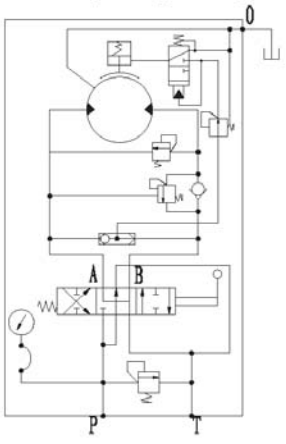
A口进油下放 inlet of port A-lowering



主要技术参数
Main Specification

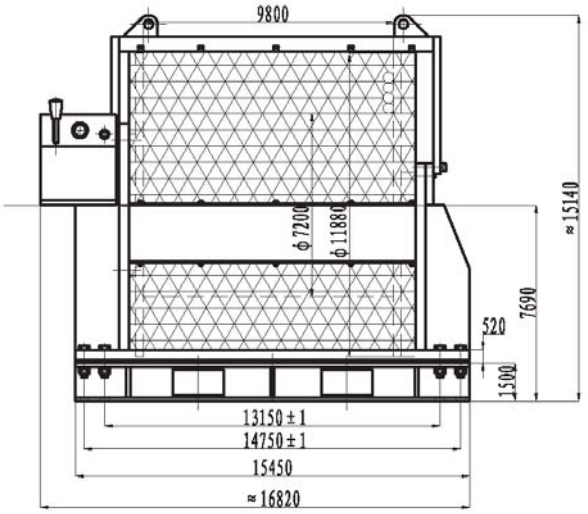
型号	Model	IYJ466-150-256-26-ZPG
第一层拉力	Pull on the 1st layer(kN)	150
第一层绳速	Speed on the 1st layer(m/min)	12
总排量(ml/r)	Total displacement(ml/r)	15840
工作压差	Work pressure diff.(MPa)	250
供油流量	Supply oil flow(L/min)	110(ηv=0.93)
钢丝绳直径	Diameter of rope(mm)	26
层数	layer	4
容绳量	Capacity of rope(m)	256
液压马达型号	Hydraulic motor	A2FE160/6.1WVZL10
行星减速器型号	Gearbox model	IGC80W3-B99-A2FE160(i=99)

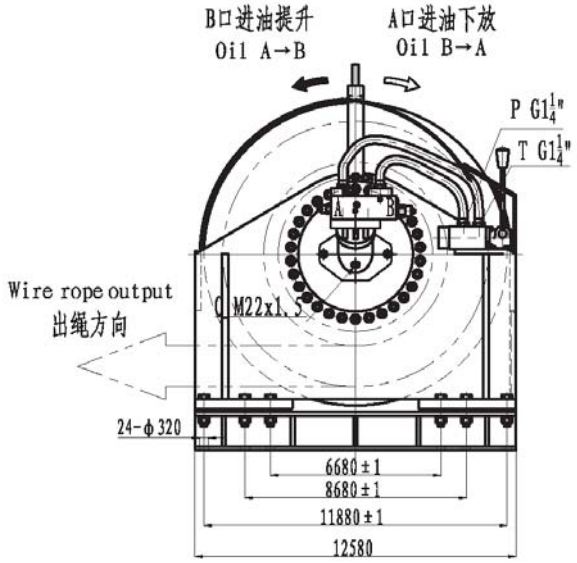
液压原理图
Hydraulic principle diagram



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.

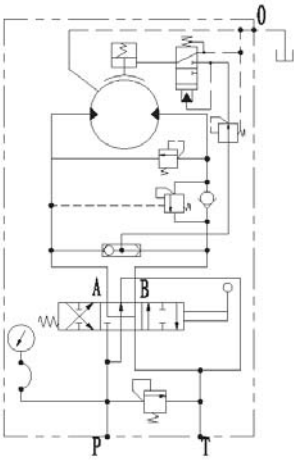




主要技术参数
Main Specification

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.
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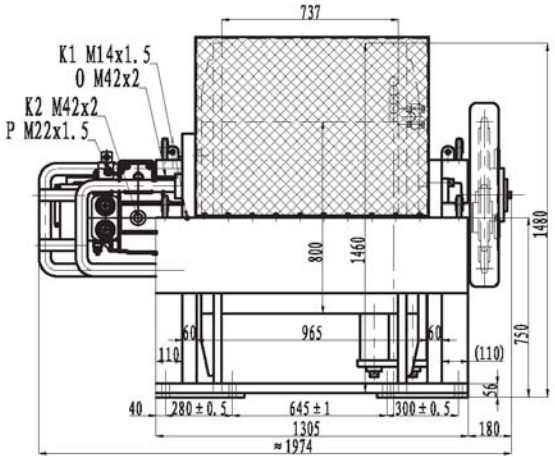
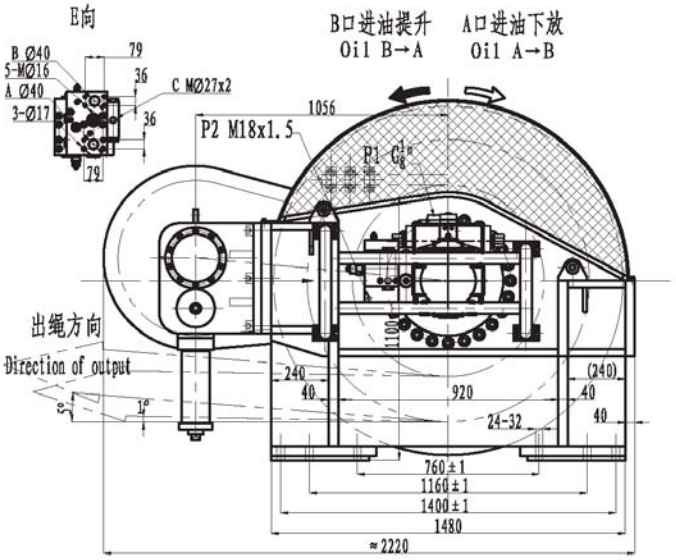
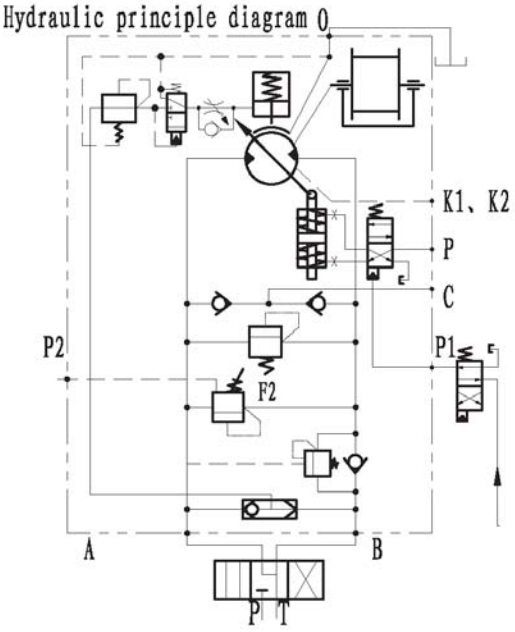




主要技术参数
Main Specification

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



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,
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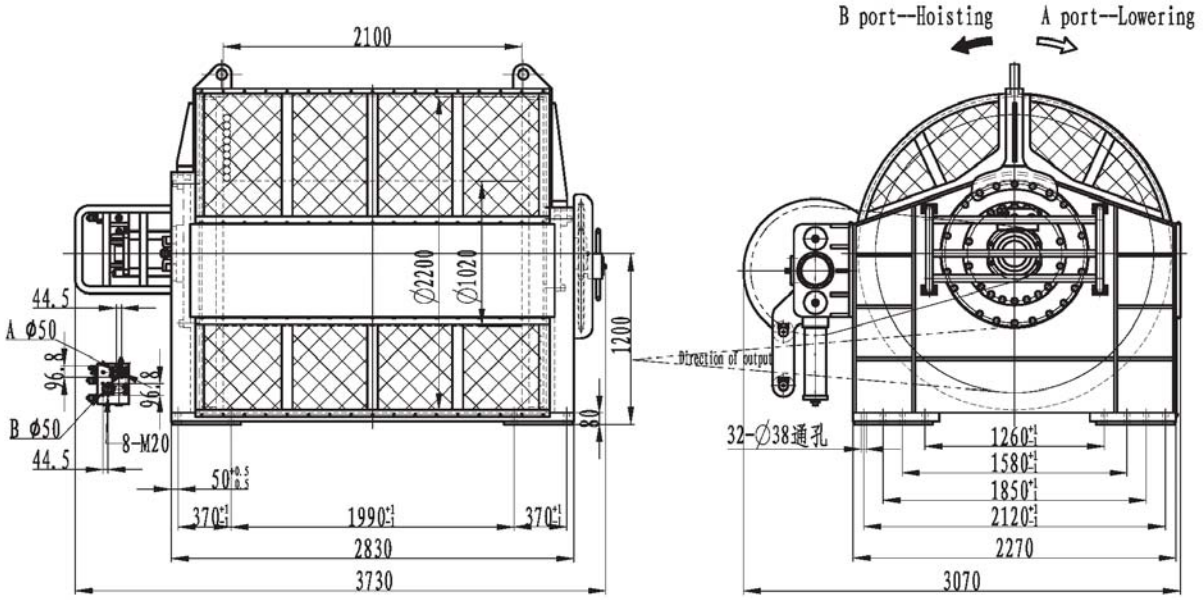
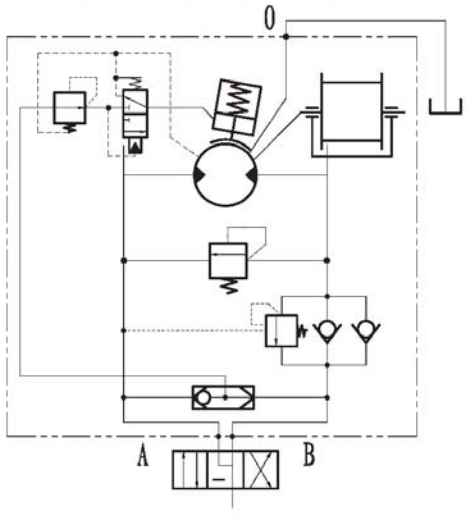
IYJ 61111-800-1600-52-ZP



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.

IYJ-ZZ 系列双制动载人液压绞车

1. 概述

IYJ-ZZ系列双制动液压绞车是由本公司自主研发，绞车主要由轴向柱塞马达、两个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，在性能上则具有安全性好（通过前后两个单独的制动器来提供有效可靠的制动）、低速稳定性好、噪音小，操作可靠好等特点，该产品已通过 CCS 和 BV 认证，用于海工载人绞车设备上，技术参数符合海洋国际公约，它既可用于载货又可用于载人，受到国内外用户的普遍好评，并已出口到新加坡、荷兰等国家。

2. 型号说明

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

- N：结构型式
- P：带平衡阀，无此字母表示不带平衡阀
- Z：带片式制动器，无此字母表示不带片式制动器
- Z：带片式制动器，无此字母表示不带片式制动器
- *：钢丝绳直径(mm)
- *：容绳量(m)
- *：额定拉力(kN)
- *：行星减速器齿轮模数
- IYJ：意宁牌液压绞车

3. 型号举例

IYJ33.75-60-172-18-ZZP表示行星减速器一级、二级齿轮模数分别为3、3.75，绞车额定拉力为60kN，容绳量为172m，钢丝绳直径为18mm，带前后片式制动器及平衡阀。

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-ZZ series double brake hydraulic winches

1. Brief introduction

IYJ-ZZ series hydraulic winches adopt our patented technology and advanced manufacture method. And they are mainly consist of axial piston hydraulic motor, Z type hydraulic multi-disc brake and C type or KC type planetary gearbox, clutch, drum, support shaft, frame. hydraulic motor can choose different distributor according to the working conditions, such as counterbalance valve、overload valve、shuttle valve、speed control directional valve and other functions' valve. This series winches featured compact and elegant figure, small size and lightweight, and a high efficiency and power, low noise and good operating performance, and the two single brake can give the winches good safty . This series of hydraulic winches have been approved by CCS and BV, and they can be used on of shore application to life people. Technical specification follows international canvention on the law of the sea. IYJ series hydraulic winches have been well sold in China company and also have been exported to the Netherlands, Indonsia, Singapore and other areas in the world.

2. Model options

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

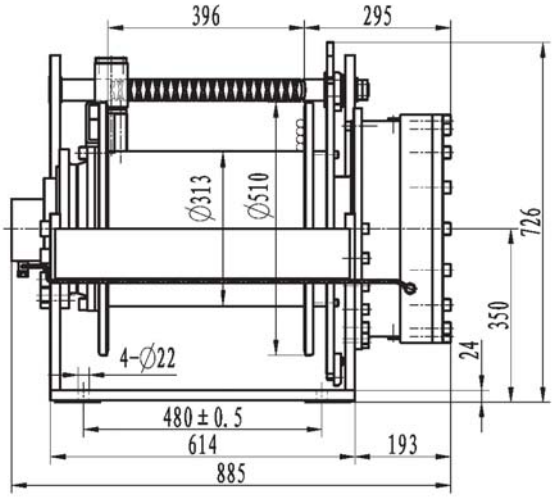
- Structure model
- P-represents with counterbalance valve
- Z-represents with brake
- Z-represents with brake
- Diameter of rope (mm)
- Capacity of rope (m)
- Rated single line pull (kN)
- Module of planetary gearbox
- Basic prefix of hydraulic winch

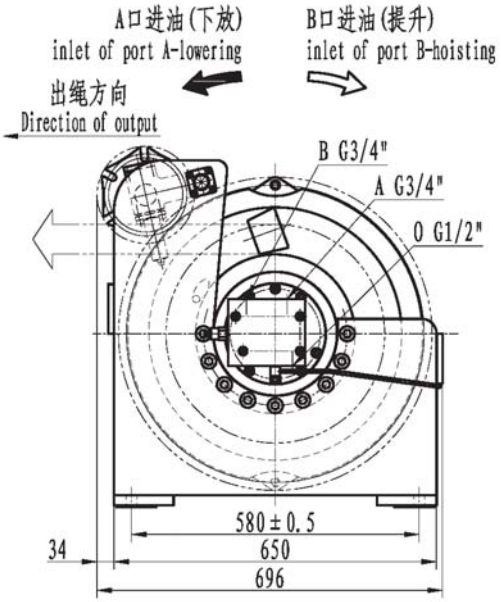
3. Options example

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

4. Parameter description

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

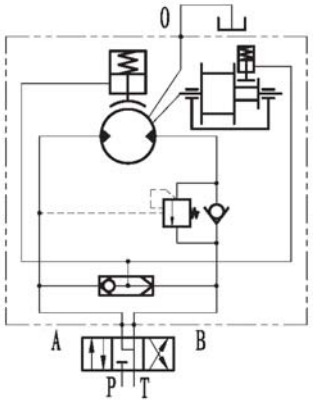




主要技术性能参数 Main specification

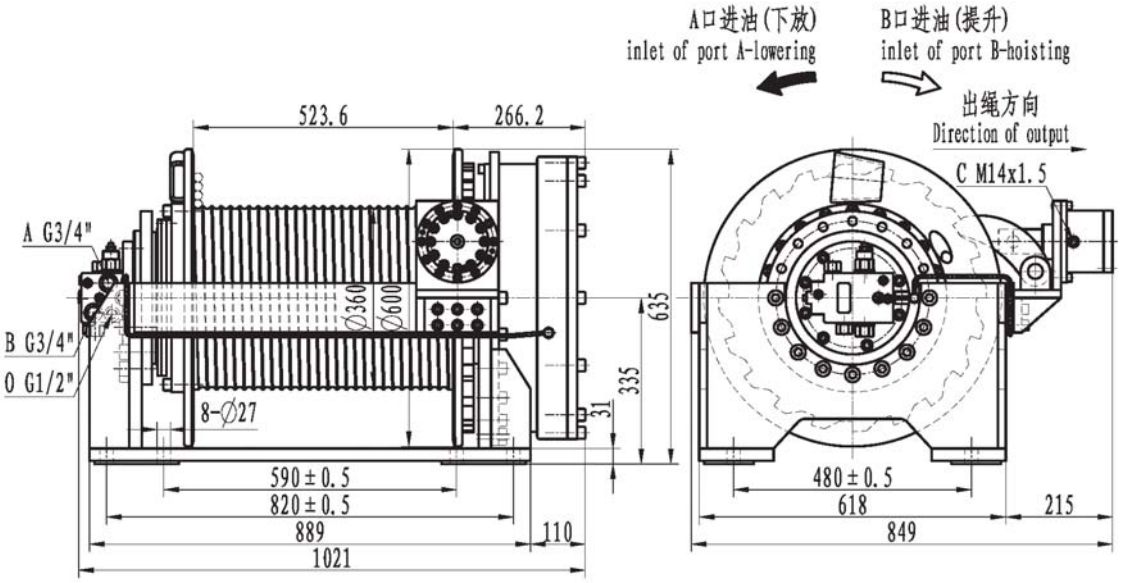
层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kg)	1700	1549	1423	1316
额定绳速 Rope speed(m/min)	20	21.9	23.8	25.8
容 绳 量 Drum Capacity(m)	24	51	79	110
总 排 量 Total Displacement(mL/r)	1666			
系统压力 System Rated Pressure(Bar)	150			
供油流量 Pump Supply Oil Flow(L/min)	36			
绳索直径 Rope Diameter(mm)	16			
液压马达型号 Hydraulic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

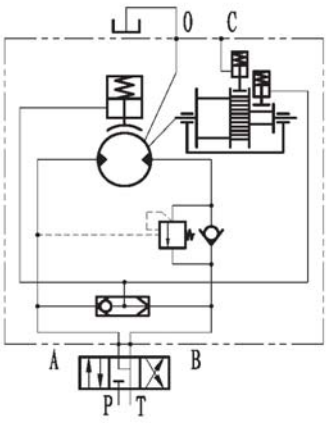
Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical 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

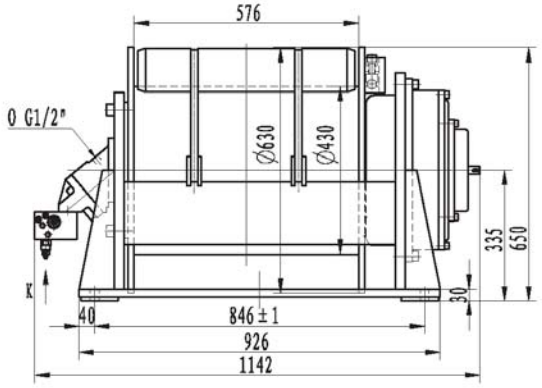
层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kN)	50	46	42	39
额定绳速 Rope speed(m/min)	42	46	50	54
容 绳 量 Drum Capacity(m)	33	69	108	150
总 排 量 Total Displacement(mL/r)	4199.1			
系统压力 System Rated Pressure(Bar)	200			
供油流量 Pump Supply Oil Flow(L/min)	162			
绳索直径 Rope Diameter(mm)	18			
液压马达型号 Hydraulic Motor Model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

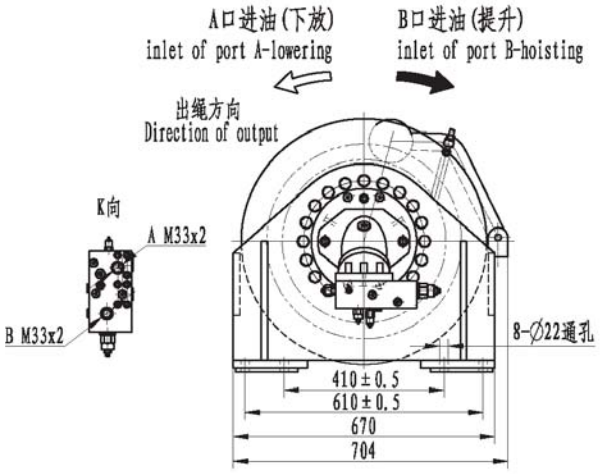
液压原理图
Hydraulic principle diagram



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.

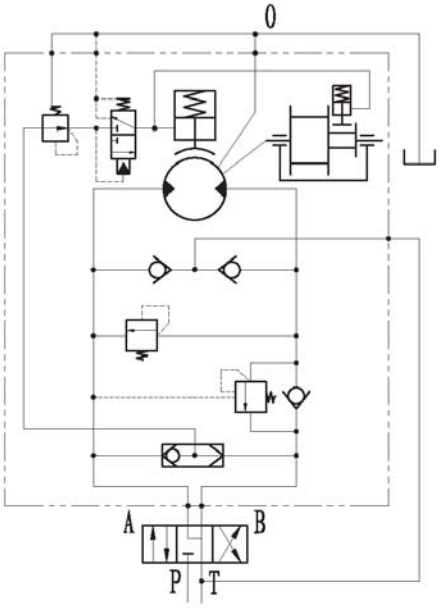




主要技术性能参数 Main specification

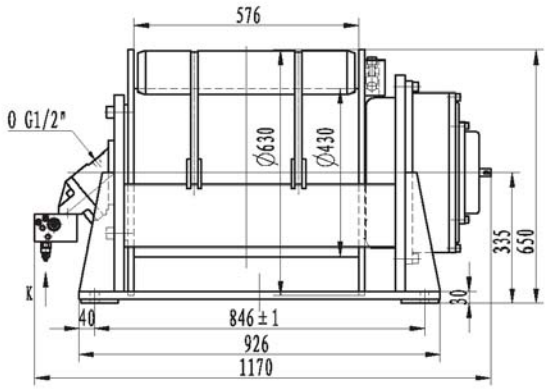
工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	2	2
第二层额定拉力 The 2nd Layer Line pull(kN)	50	15
第二层额定绳速 The 2nd Layer Rope speed(m/min)	0-30	0-30
总 排 量 Total Displacement(mL/r)	5600	
容 绳 量 Drum Capacity(m)	70	
系统压力 System Rated Pressure(Bar)	200	80
供油流量 Pump Supply Oil Flow(L/min)	120	
绳索直径 Rope Diameter(mm)	22	
液压马达型号 Hydraulic Motor Model	A2FE56/6.1WVZL10	
减速器型号 Gearbox Model(Ratio)	IGC36W3(i=100)	
马达制动扭矩 Static brake torque of motor(N·m)	740	
卷筒制动扭矩 Static brake torque of drum(N·m)	30000	

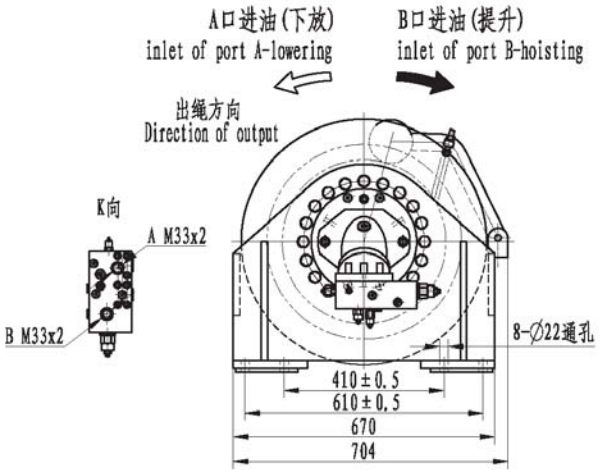
液压原理图
Hydraulic principle diagram



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.

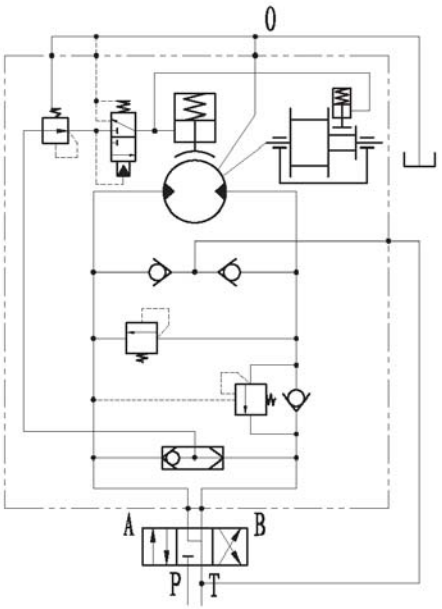




主要技术性能参数 Main specification

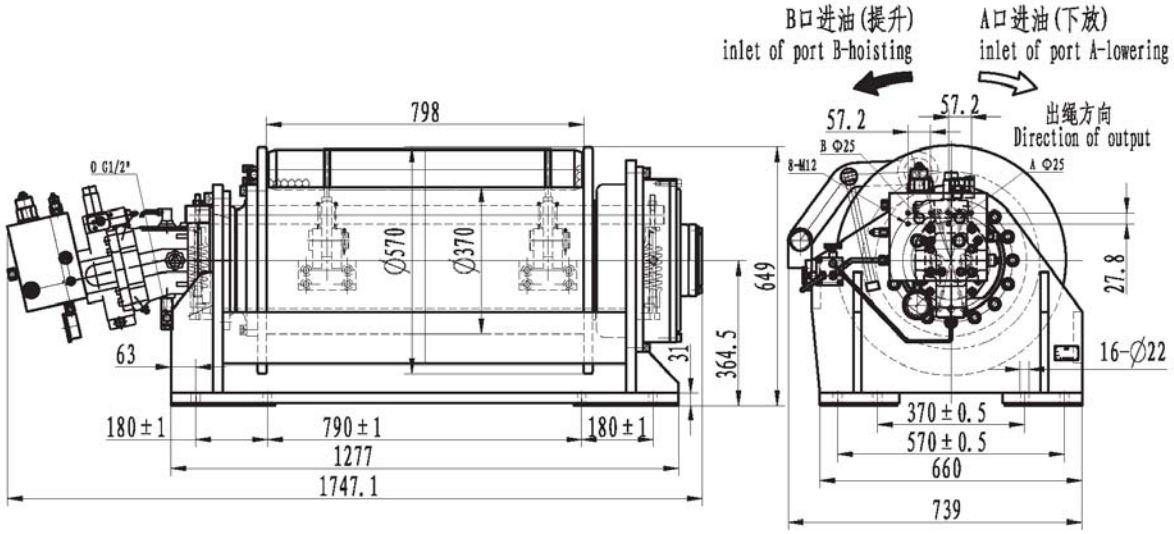
工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	2	2
第二层额定拉力 The 2nd Layer Line pull(kN)	50	25
第二层额定绳速 The 2nd Layer Rope speed(m/min)	0-30	0-30
总 排 量 Total Displacement(mL/r)	5600	
容 绳 量 Drum Capacity(m)	70	
系统压力 System Rated Pressure(Bar)	200	100
供油流量 Pump Supply Oil Flow(L/min)	120	
绳索直径 Rope Diameter(mm)	22	
液压马达型号 Hydraulic Motor Model	A2FE56/6.1WVZL10	
减速器型号 Gearbox Model(Ratio)	IGC36W3(i=100)	
马达制动扭矩 Static brake torque of motor(N·m)	740	
卷筒制动扭矩 Static brake torque of drum(N·m)	30000	

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。

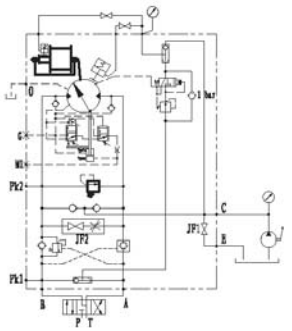
Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical 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

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	3	3
第三层额定拉力 The 3rd Layer Line pull(kN)	60	15
第一层额定绳速 The 1st Layer Rope speed(m/min)	0-50	0-50
总 排 量 Total Displacement(mL/r)	7169	4020
容 绳 量 Drum Capacity(m)	172	
系统压力 System Rated Pressure(Bar)	170	80
供油流量 Pump Supply Oil Flow(L/min)	320	180
绳索直径 Rope Diameter(mm)	18	
液压马达型号 Hydraulic Motor Model	A6VM107EP2D/63W60-VZB	
减速器型号 Gearbox Model(Ratio)	IGC36W3(i=67)	
马达制动扭矩 Static brake torque of motor(N·m)	500	
卷筒制动扭矩 Static brake torque of drum(N·m)	26700	

液压原理图
Hydraulic principle diagram



备注: 1.本绞车可用于载人等重要场合;
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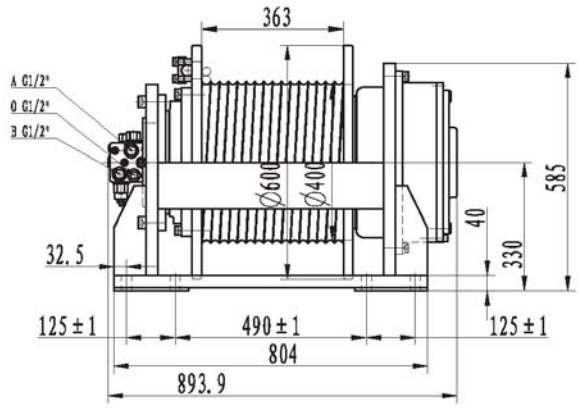
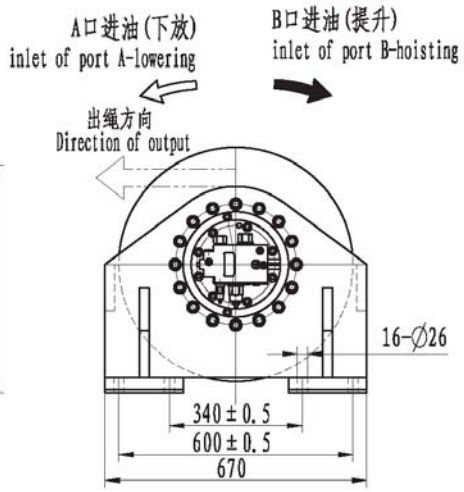
3.供油流量是泵的理论流量，即在考虑系统容积效率为0.85的情况下计算所得;
4.容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出。

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.

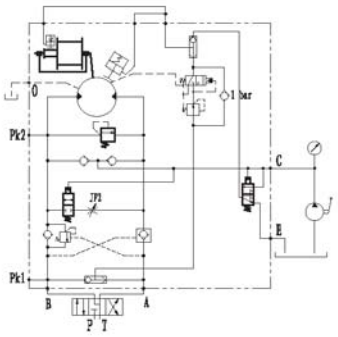




主要技术性能参数 Main specification

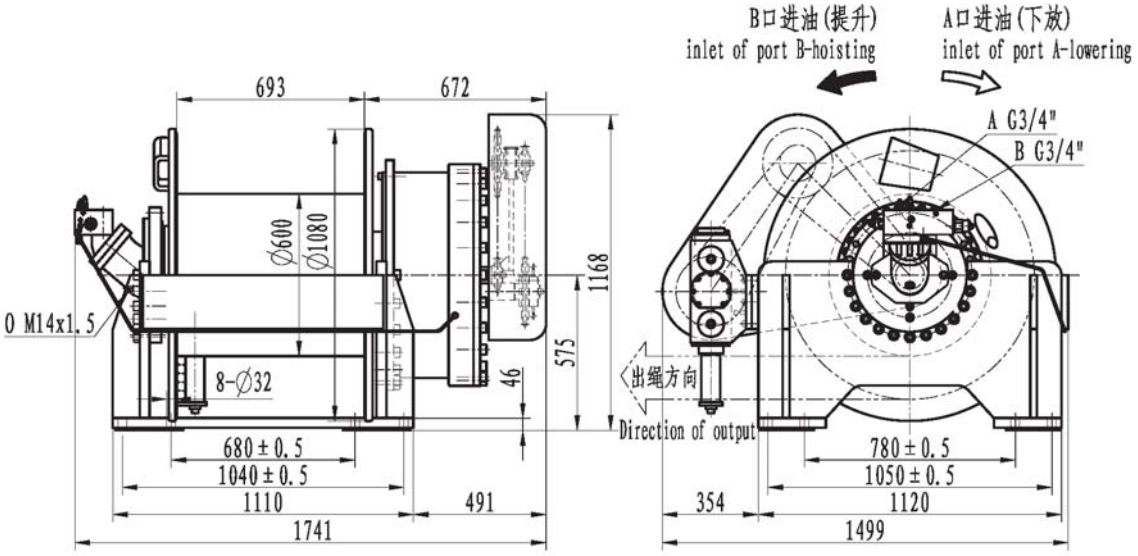
工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	2	2
第二层额定拉力 The 2nd Layer Line pull(kN)	70	20
第一层额定绳速 The 1st Layer Rope speed(m/min)	0-20	0-20
总 排 量 Total Displacement(mL/r)	6352	
容 绳 量 Drum Capacity(m)	36	
系统压力 System Rated Pressure(Bar)	220	90
供油流量 Pump Supply Oil Flow(L/min)	106	
绳索直径 Rope Diameter(mm)	22	
液压马达型号 Hydraulic Motor Model	IM80	
减速器型号 Gearbox Model(Ratio)	IGC36W3(i=79.4)	
马达制动扭矩 Static brake torque of motor(N·m)	350	
卷筒制动扭矩 Static brake torque of drum(N·m)	30000	

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。

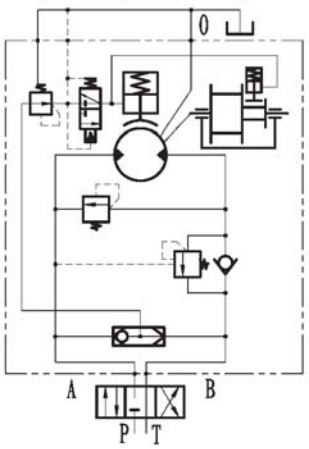
Note: 1.This winch can be used for lifting people or other important occasions.
2.Total displacement represents the capacity of oil supply per revolution.
3.Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 85 percent.
4.Capacity of rope is theoretical 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

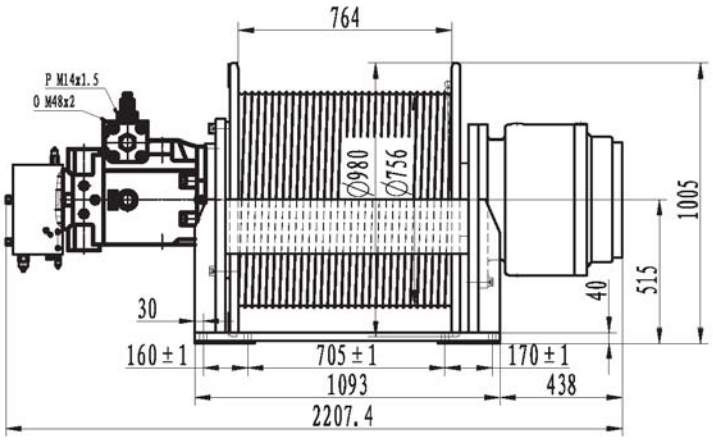
层 数 Rope Layer	1	2	3	4
额定拉力 Line pull(kN)	50	46	42	39
额定绳速 Rope speed(m/min)	42	46	50	54
容 绳 量 Drum Capacity(m)	33	69	108	150
总 排 量 Total Displacement(mL/r)	23552			
系统压力 System Rated Pressure(Bar)	140			
供油流量 Pump Supply Oil Flow(L/min)	253			
绳索直径 Rope Diameter(mm)	32			
液压马达型号 Hydraulic Motor Model	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			

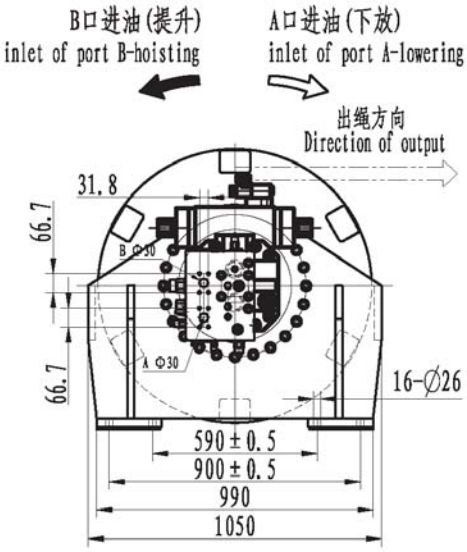
液压原理图
Hydraulic principle diagram



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.

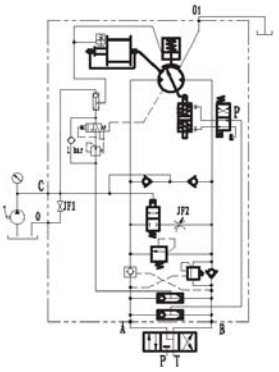




主要技术性能参数 Main specification

工 况 Working Condition	载货 Carry Cargo	载人 Carry People
层 数 Rope Layer	2	2
第二层额定拉力 The 2nd Layer Line pull(kN)	100	33
第二层额定绳速 The 2nd Layer Rope speed(m/min)	40	120
总 排 量 Total Displacement(mL/r)	13965	4301.2
容 绳 量 Drum Capacity(m)	140	
系统压力 System Rated Pressure(Bar)	250	
供油流量 Pump Supply Oil Flow(L/min)	239	
绳索直径 Rope Diameter(mm)	24	
液压马达型号 Hydraulic Motor Model	HL-A4VSM500/154DZ/30WVZH01	
减速器型号 Gearbox Model(Ratio)	IGC110W2(i=27.93)	
马达制动扭矩 Static brake torque of motor(N·m)	2300	
卷筒制动扭矩 Static brake torque of drum(N·m)	63000	

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--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，可广泛用于需要自由下放或浮动状态的工况中，该产品现已批量生产，不但在国内广泛应用，并出口到东南亚、中东、印度、澳大利亚、俄罗斯、荷兰等国家和地区。

2. 型号说明

IYJ **-*-*-*-L-Z P G H*Q

- 带钳盘式制动器，无此字母表示不带
- 表示系统设定压力，H1——表示10MPa；H2——表示16MPa；H3——表示20MPa；H4——表示25MPa；H5——表示30MPa；H6——表示35MPa；
- 由高速马达驱动，无此字母表示由低速大扭矩马达驱动
- 带平衡阀，无此字母表示不带
- 带多片盘式制动器，无此字母表示不带
- 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
- 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。

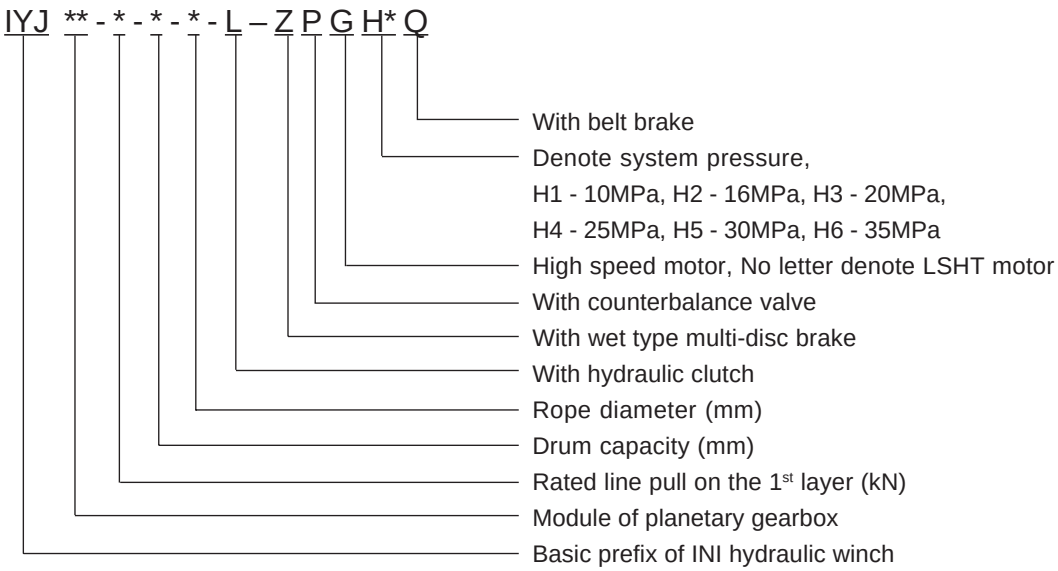
IYJ—L Free Fall Hydraulic Winch Series

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 work conditrons which require free fall or floating staucs, crushers. The series not only widely have been used in domestic market, but also have been exported to Southeast Asia, Middle East, India, Australia, 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)

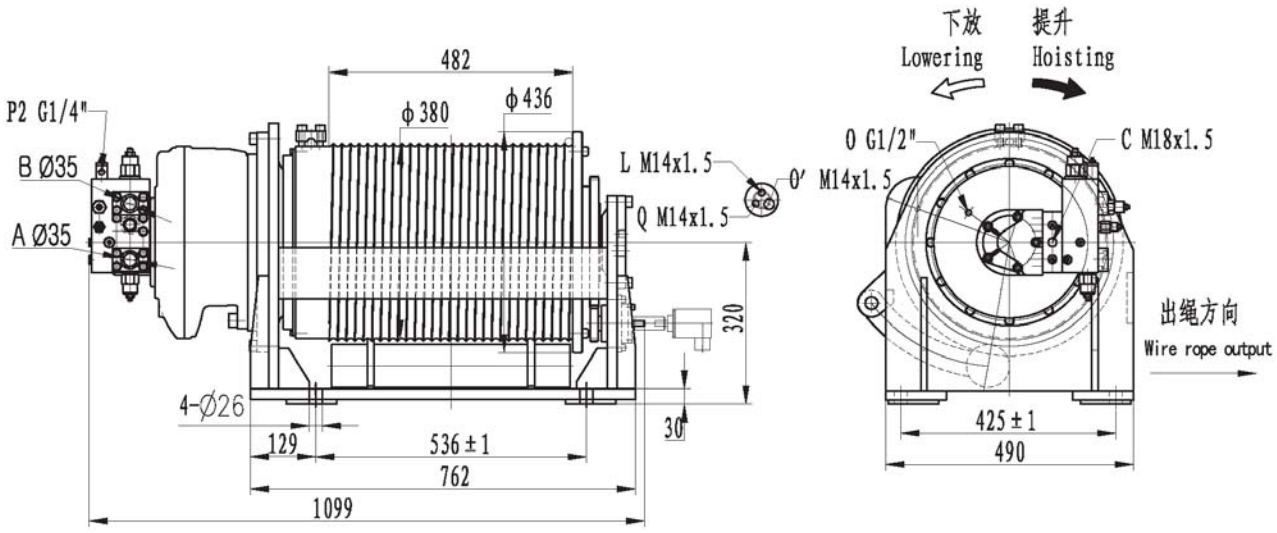
5. Fitted with rope roller and alarm device indicating bottom layer condition. (the item is optional)

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.

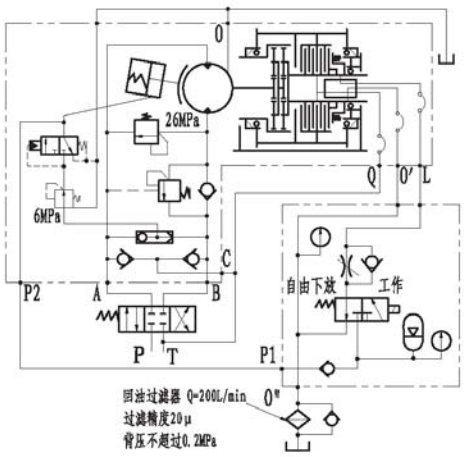
IYJ4-48-20-16-L-ZPH3



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

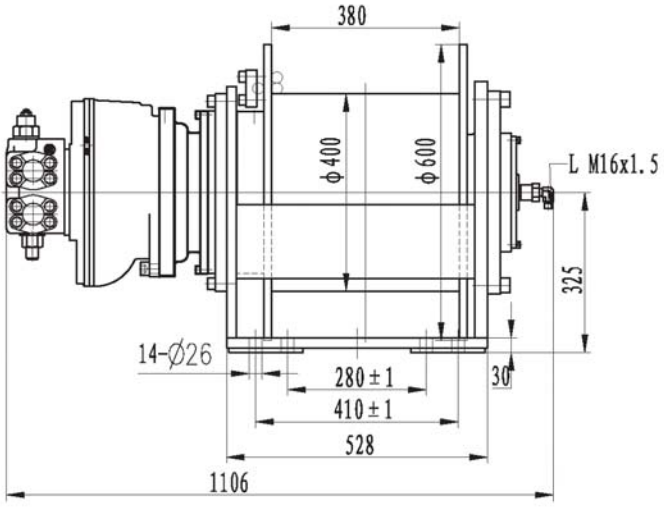
液压原理图(Hydraulic principle diagram)

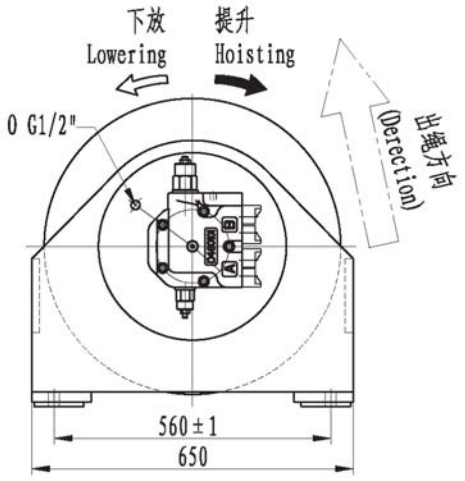


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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

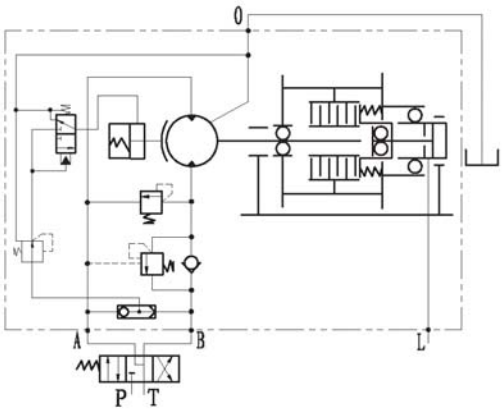




主要技术性能参数 (Main Specifition)

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

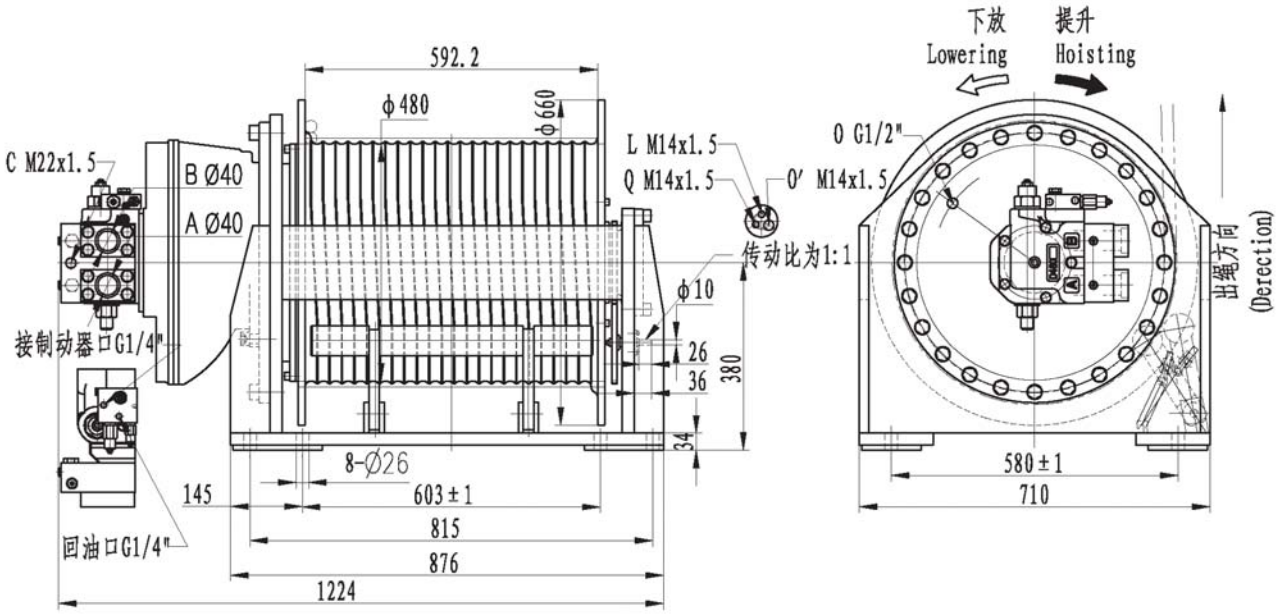
液压原理图(Hydraulic principle diagram)



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)

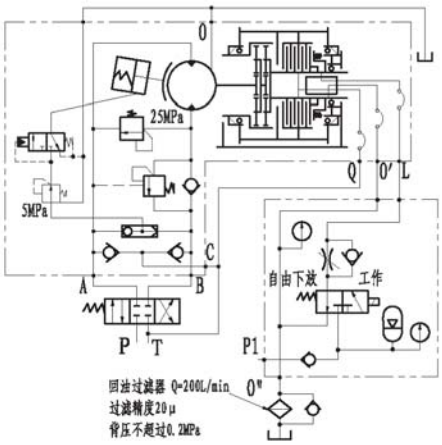
IYJ5-125-70-24-L-ZPH4



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

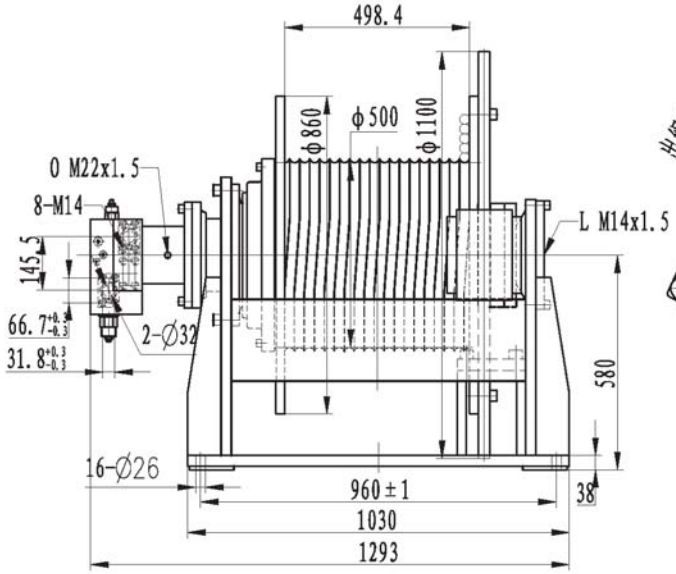
液压原理图(Hydraulic principle diagram)

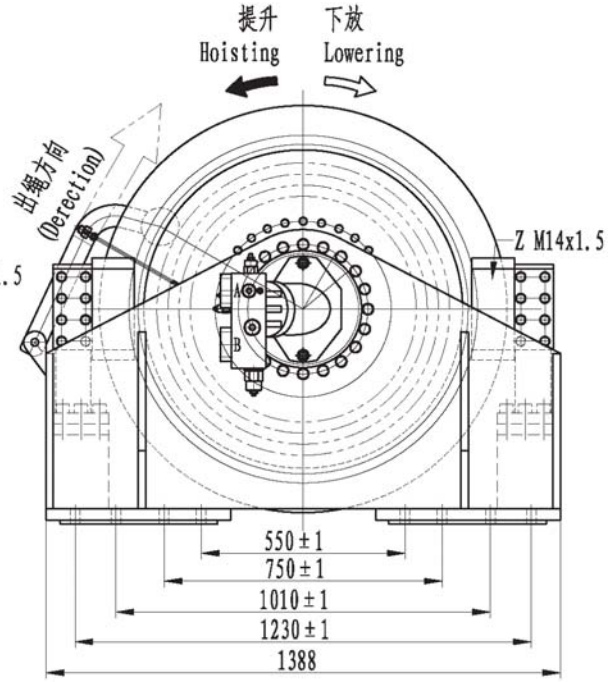


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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

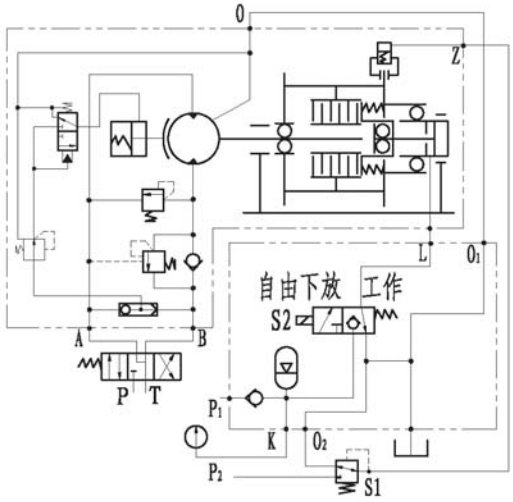




主要技术性能参数 (Main Specifition)

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

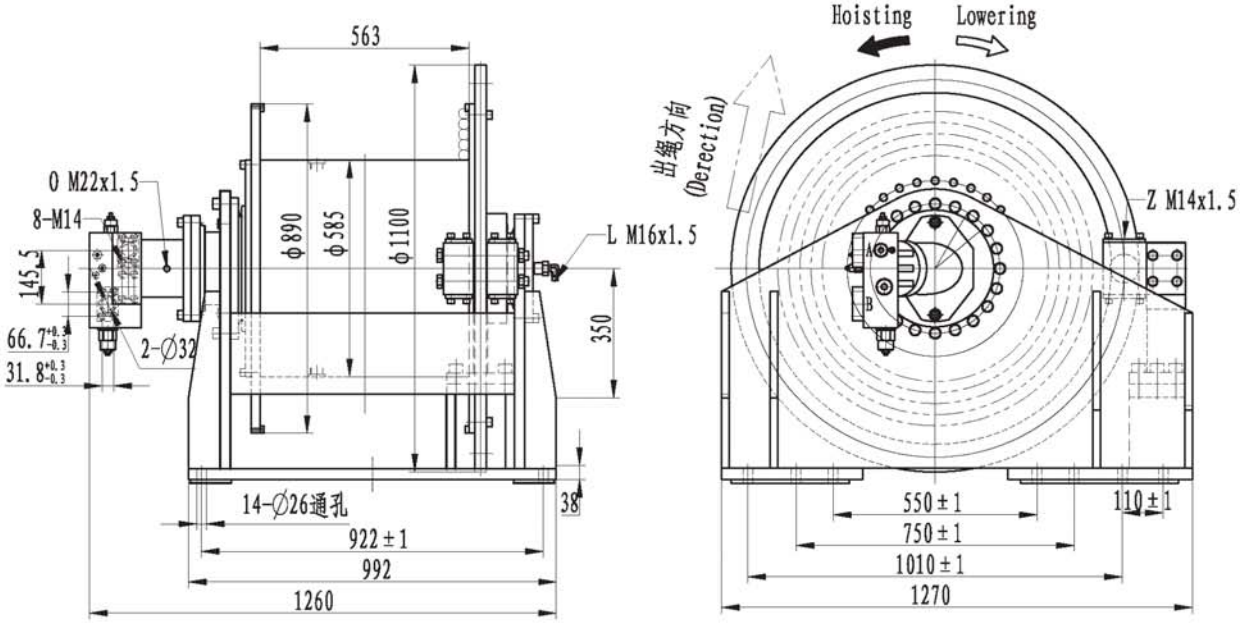
液压原理图(Hydraulic principle diagram)



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)

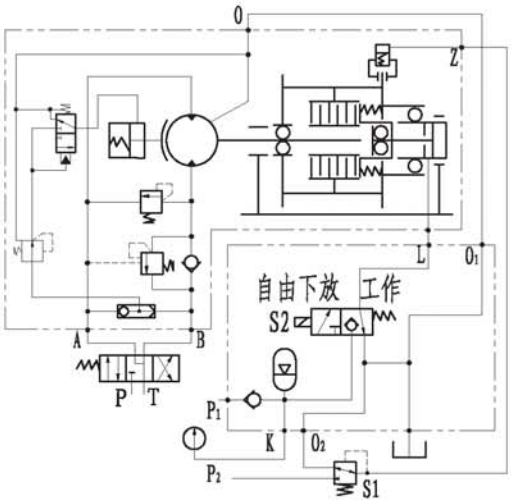
IYJ46-110-180-26-L-ZPGH5Q



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

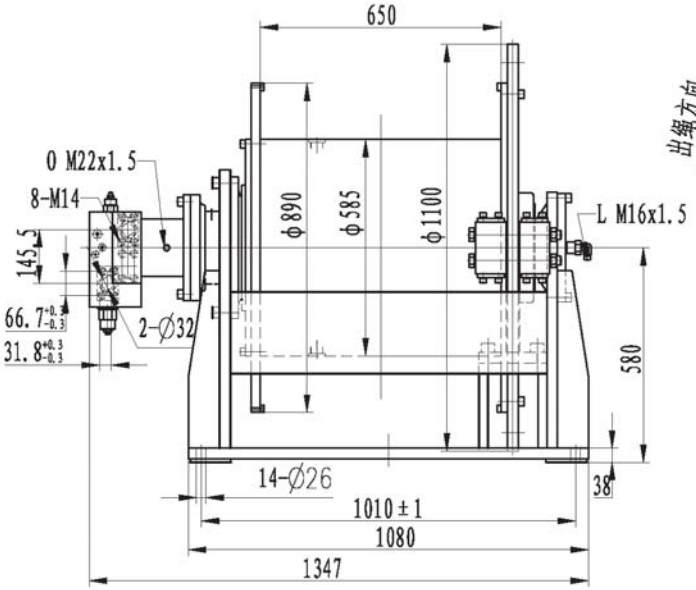
液压原理图(Hydraulic principle diagram)

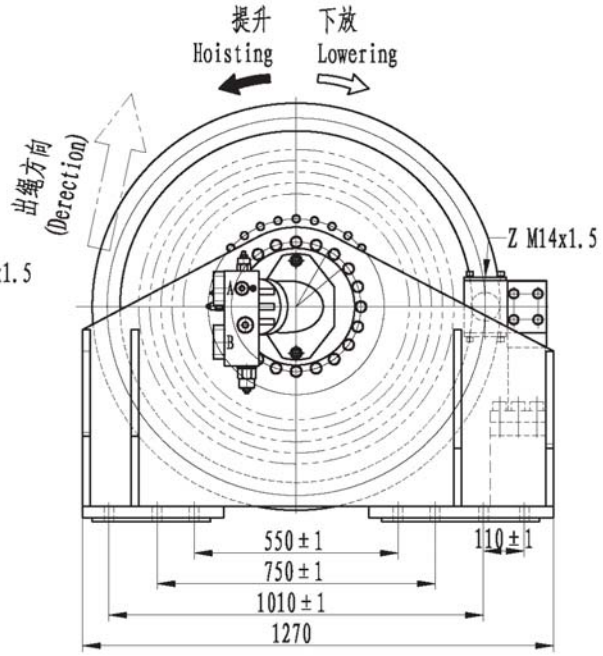


注: 1.总排量为卷筒每转一转的供油量; 工作压差为绞车工作时A、B两进出油口的压力差;
2.供油流量是泵的理论流量, 即在考虑系统容积效率为0.9的情况下计算所得;
3.容绳量为绞车的理论容绳量, 实际允许的有效容绳量应考虑保留钢丝绳3米以防绳头脱出;
4.当系统压力超过16MPa时, 进入制动器处应设置减压阀; 对系统回油背压大于1MPa时, 制动器控制回路应设置两位三通顺序阀, 使制动工况时, 制动器油缸直接通油箱;
5.离合器控制压力最高不得超过8MPa;
6.本系列绞车可带压绳机构及最后三圈钢丝绳防脱绳报警装置(此项为选项, 用户订货自选)

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

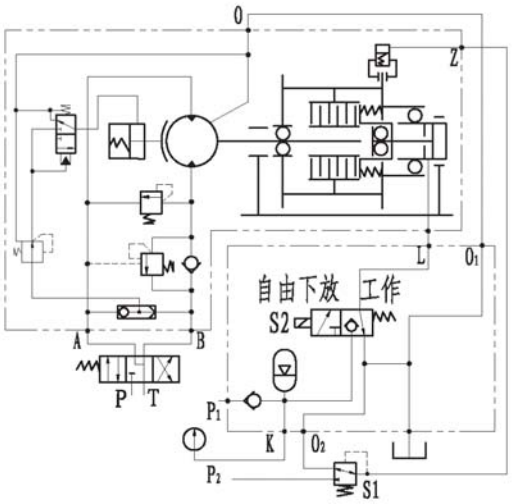




主要技术性能参数 (Main Specifition)

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

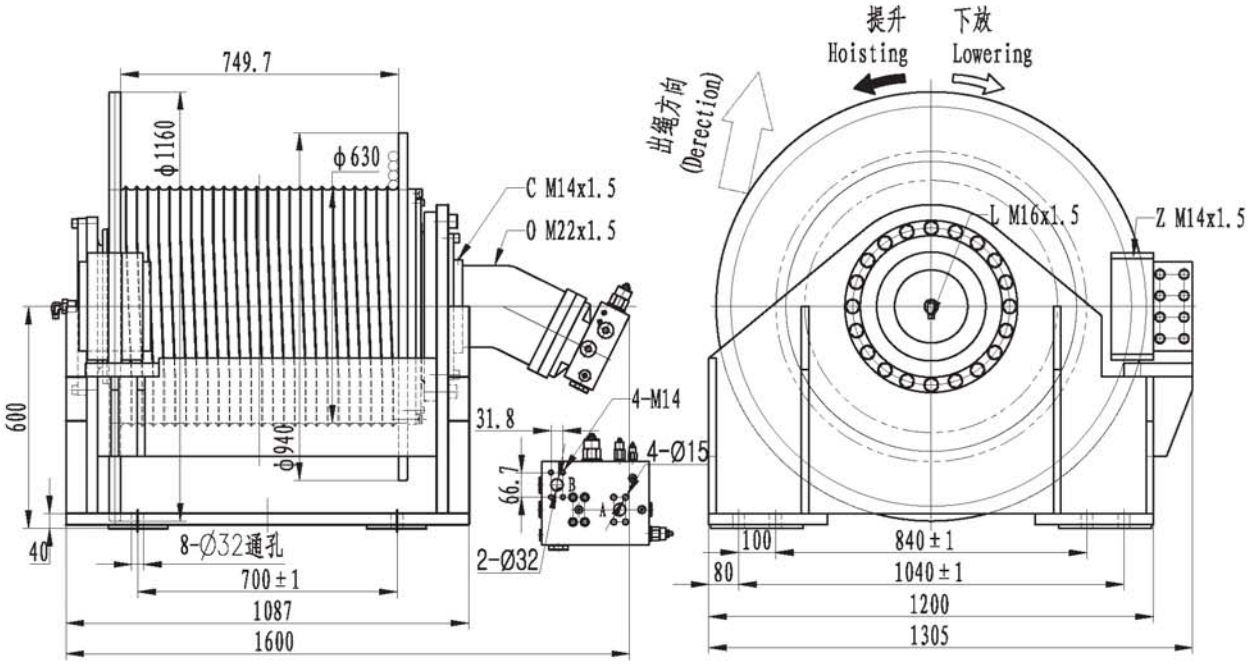
液压原理图(Hydraulic principle diagram)



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)

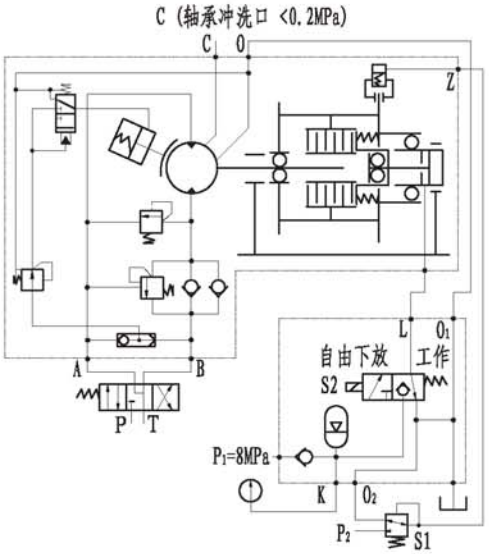
IYJ4.57-150-232-28-ZPGH5Q



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

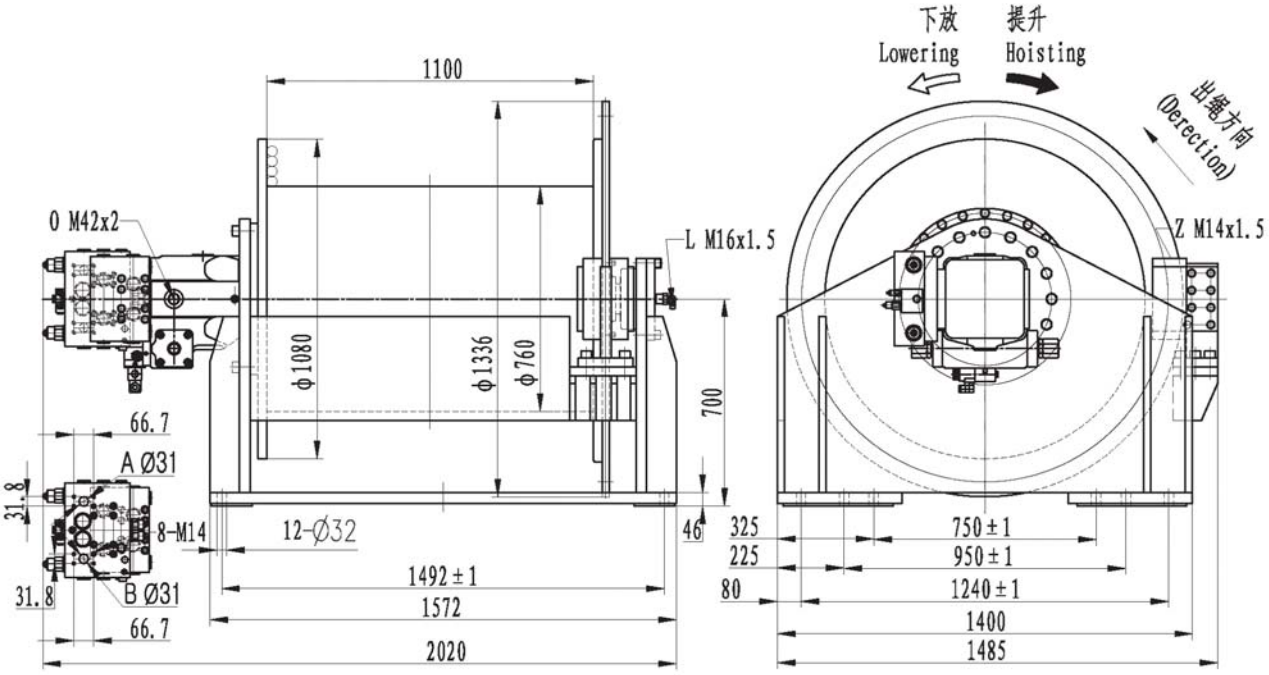
液压原理图(Hydraulic principle diagram)



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)

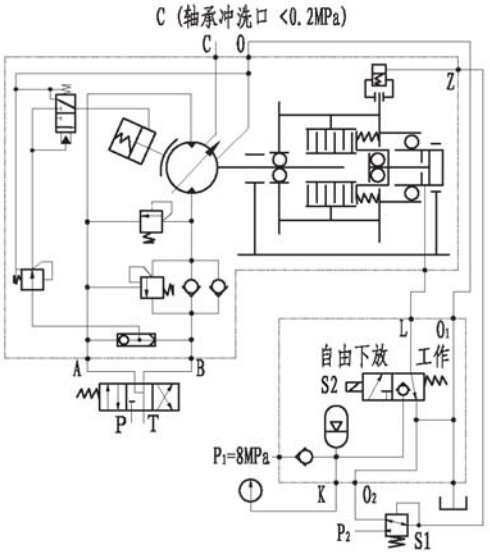
IYJ577-200-260-32-L-ZPGH5Q



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

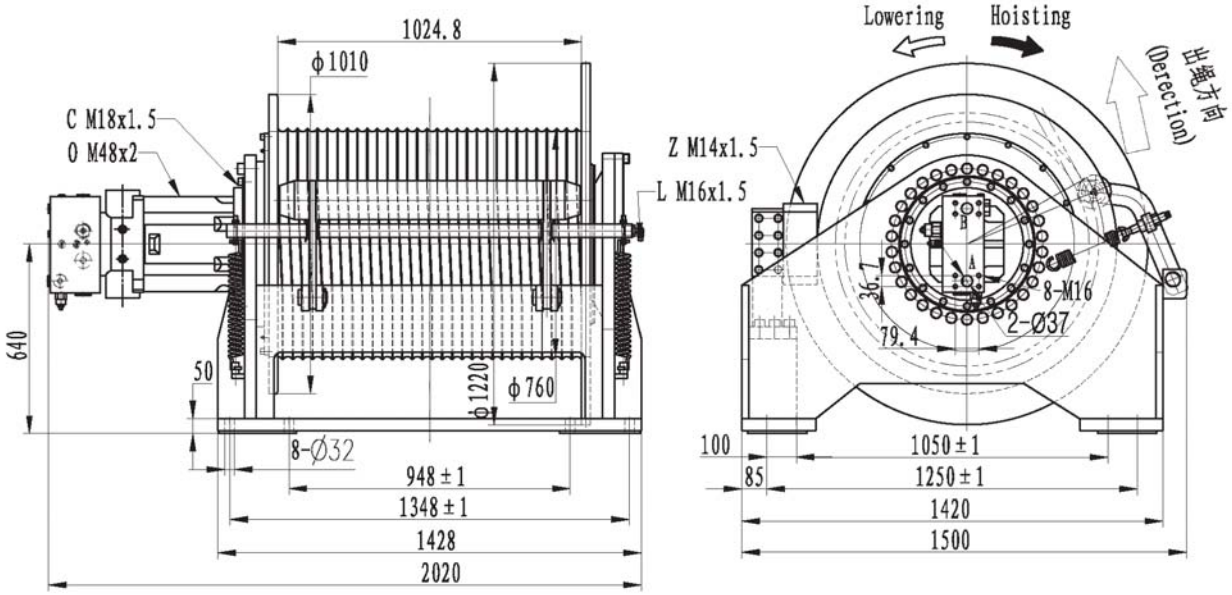
液压原理图(Hydraulic principle diagram)



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)

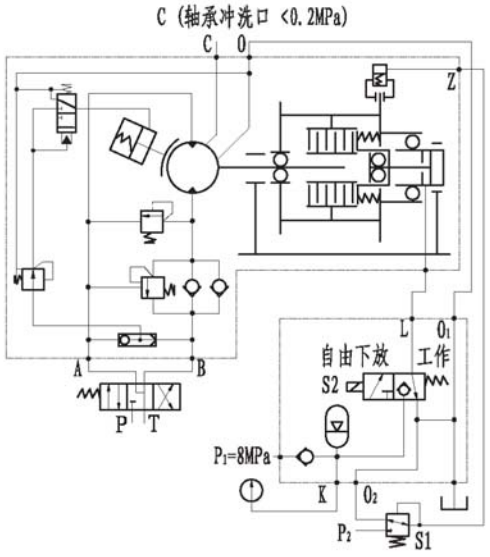
IYJ577-225-145-32-L-ZPGH5Q



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)

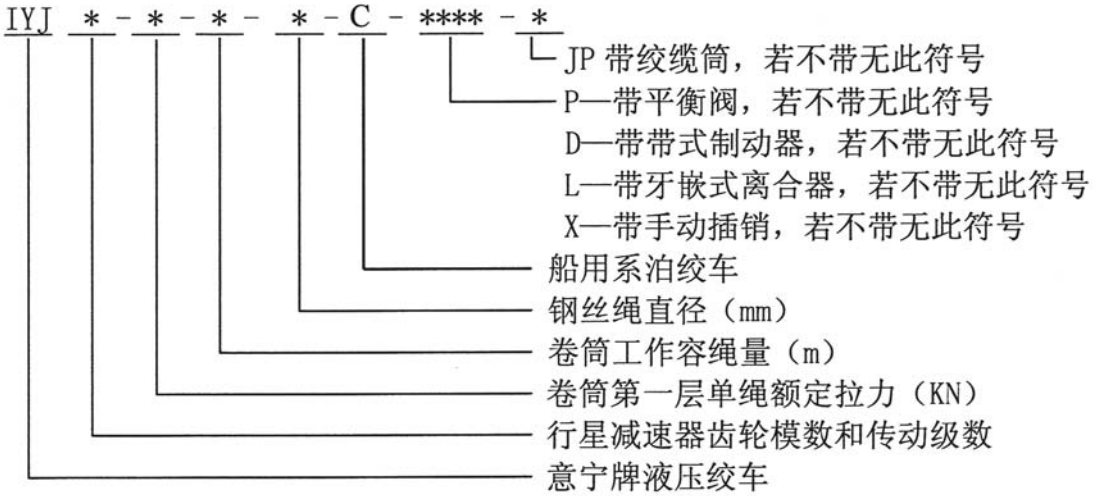
Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumet-ric efficiency considered as 90 percent.
3. Capacity of rope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

● 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。该产品已在国内外船舶行业广泛应用，并已出口到东南亚、荷兰、澳大利亚、英国等国家和地区。

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，液压系泊绞车带单向平衡阀、带带式制动器、带牙嵌式离合器、带手动插销及绞缆筒。

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 Southeast Asia, Netherlands, Australia, UK and other countries and regions.

2. Model Options

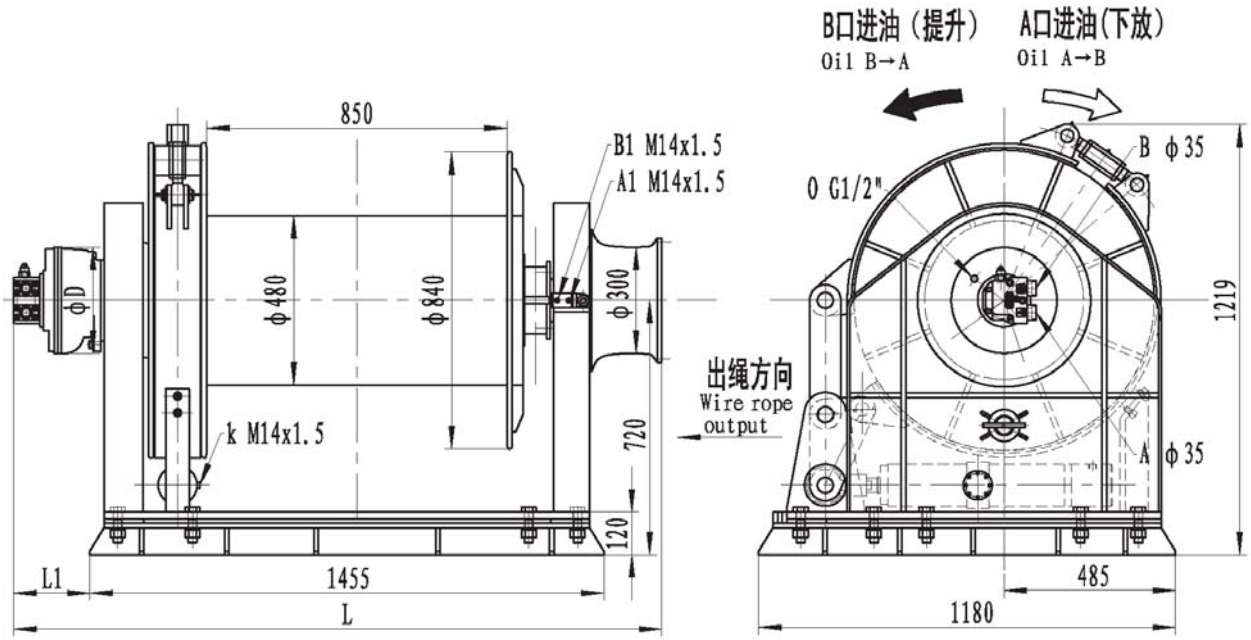
IYJ X - X - X - X - C - XXXX - X

- JP--capstan head
- P--with counterbalance valve
- D--with belt brake
- L--with tooth clutch
- X--handle latch
- Marine mooring winch
- Rope diameter (mm)
- Drum capacity (m)
- Rated single line pull 1st layer (kN)
- Module and stage of planetary gearbox
- INI hydraulic winch

3. Options Example

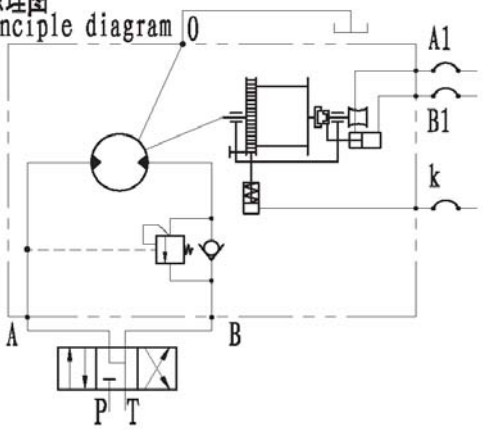
IYJ45-80-180-26-C-PDLX-JP represents that the module of two stages planetary gearbox are 4 and 5 respectively, rated pulling force on 1st layer is 80kN, drum capacity is 180m, rope diameter is 26mm, and the winch fits with belt brake, counterbalance valve, and tooth clutch, handle latch and capstan head.

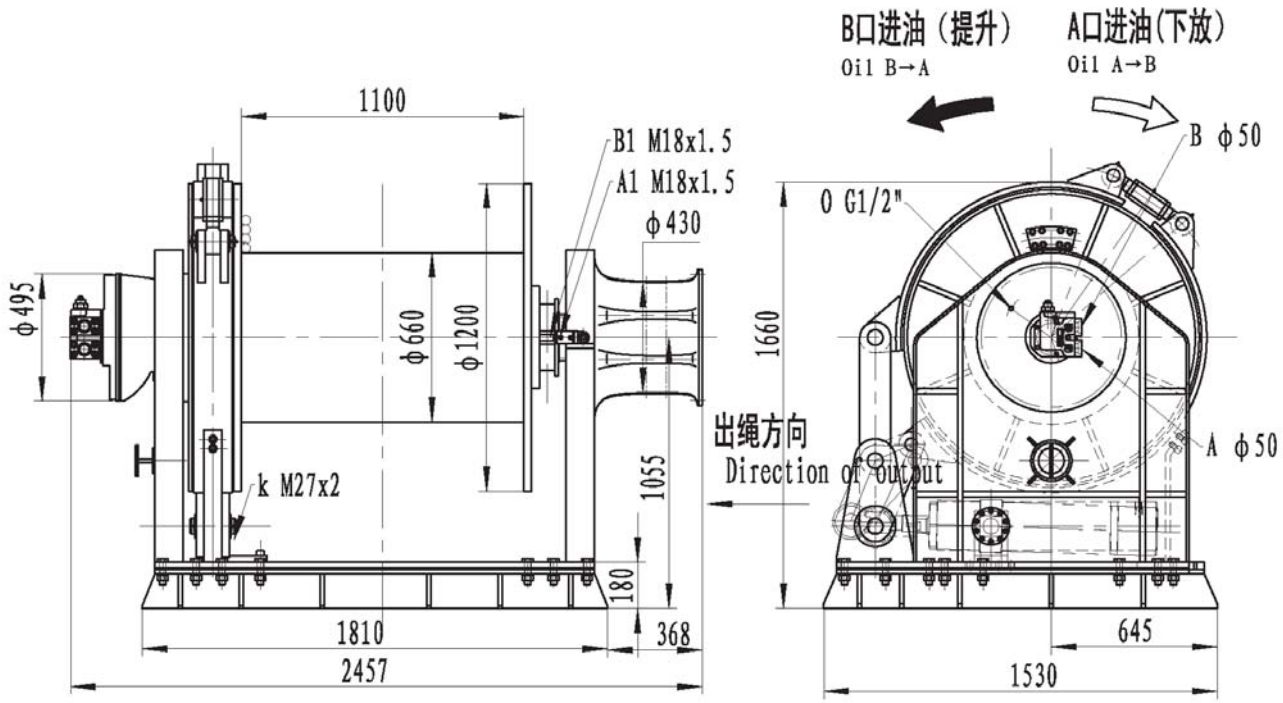
一、闭式齿轮箱驱动的系泊绞车



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

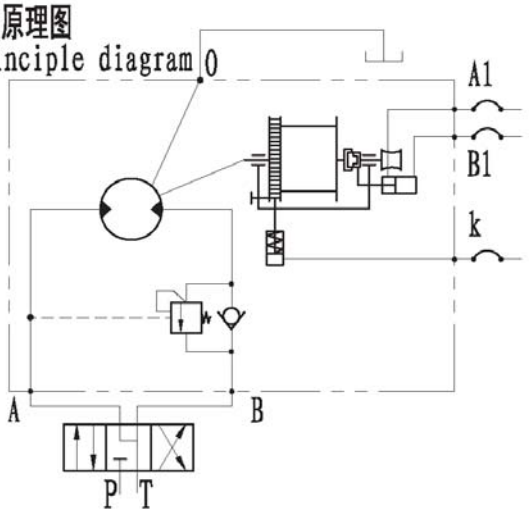
液压原理图
Hydraulic principle diagram

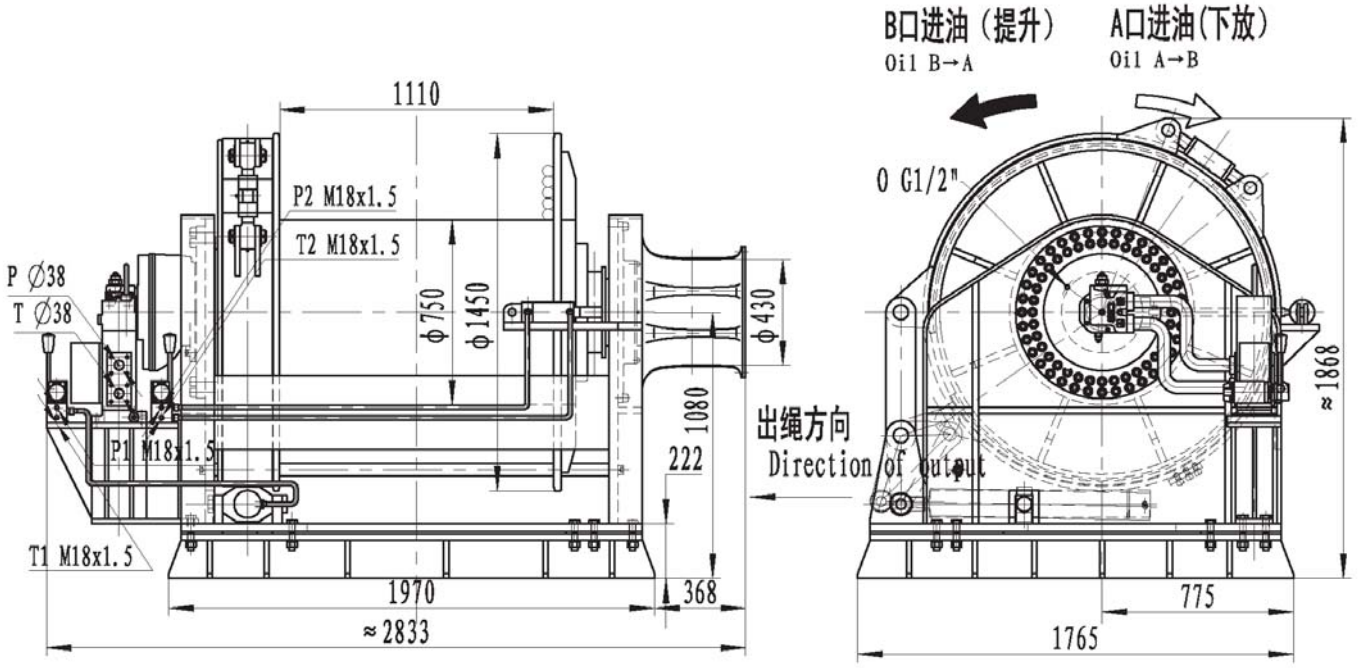




型号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ56-160-330-32-C-PDLX-JP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

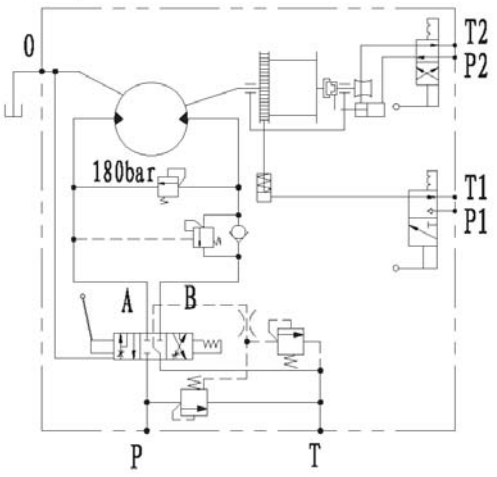
液压原理图
Hydraulic principle diagram

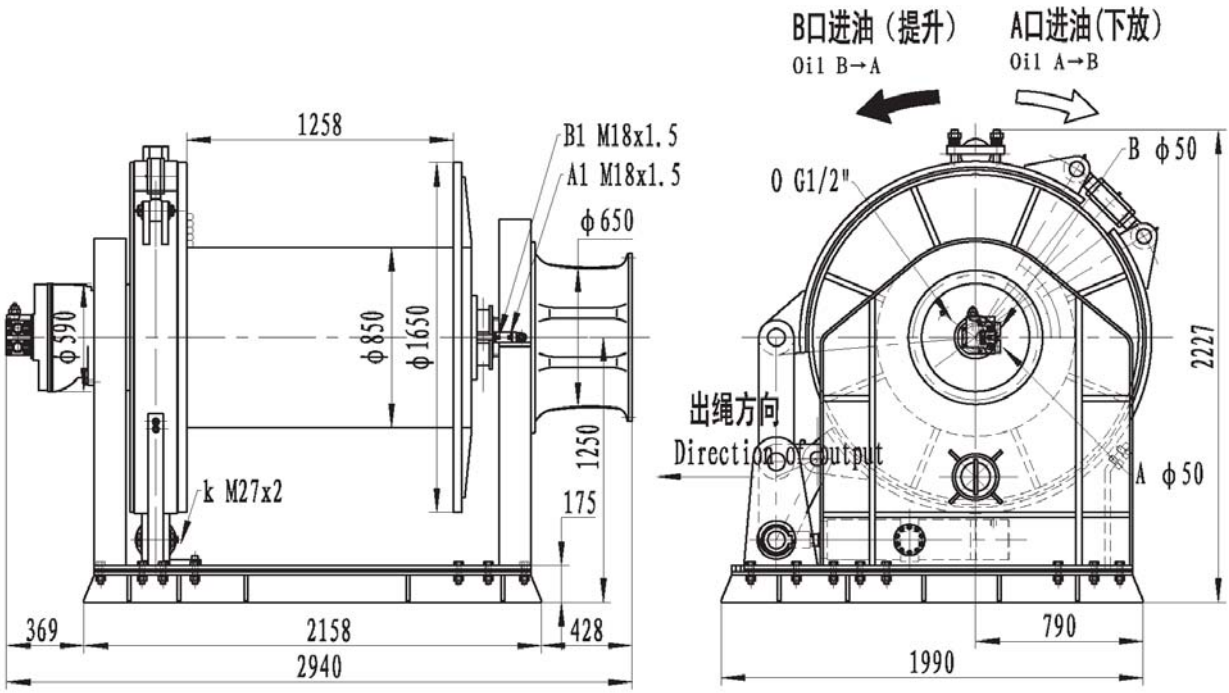




型号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ67-220-400-38-C-PDLX-JP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

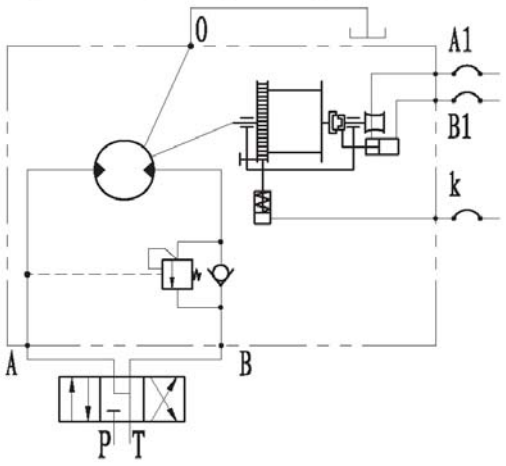
液压原理图
Hydraulic principle diagram



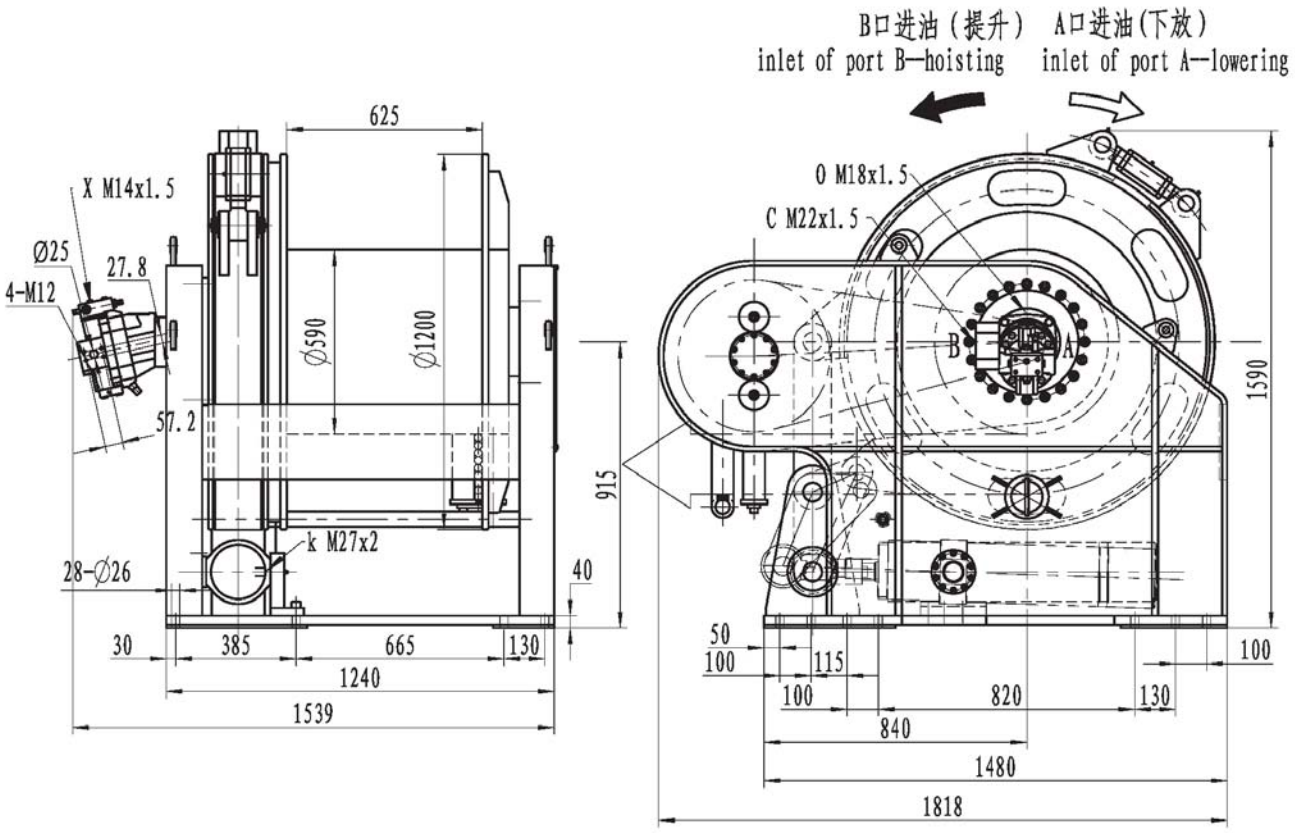


型 号 Modle	卷筒负载 Drum load (KN)	支持负载 Holding load (KN)	公称速度 Nominal Speed (m/min)	空载速度 Light-line Speed (m/min)	爬行速度 Creep Speed (m/min)	总排量 Total displacement (mL/r)	额定压力 Rated Pressure (MPa)	供油流量 Oil flow supply (L/min)	钢丝绳直径 Rope diameter (mm)	层数 Layer	容绳量 Wire rope capacity (m)
IYJ79-315-330-46-C-PDLX-JP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



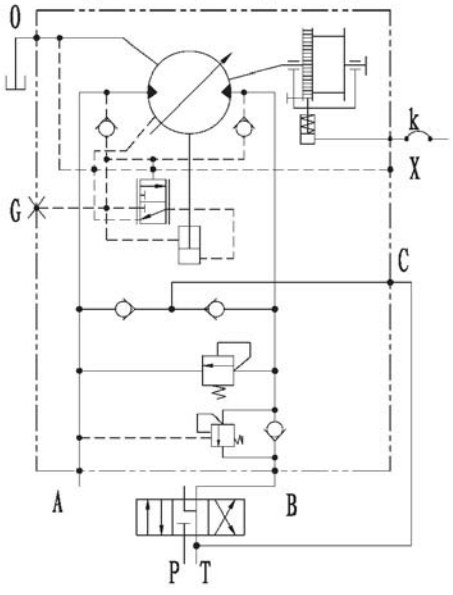
34.54.5-100/50-500-24-C-PDX



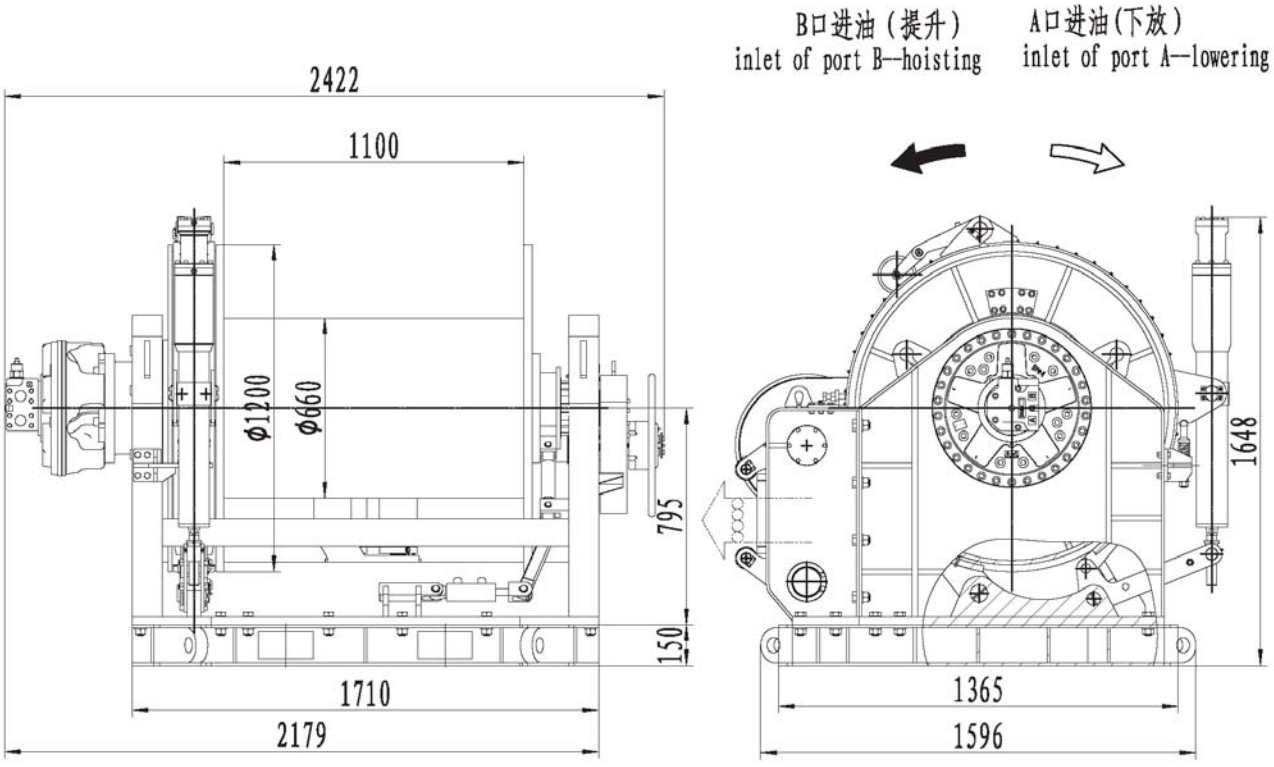
主要技术参数
Main Specification

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



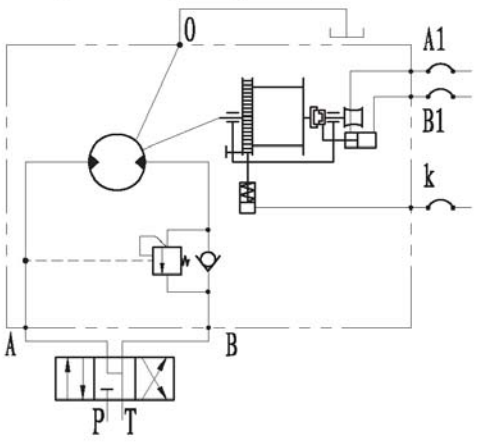
56-200-268-41-PDL



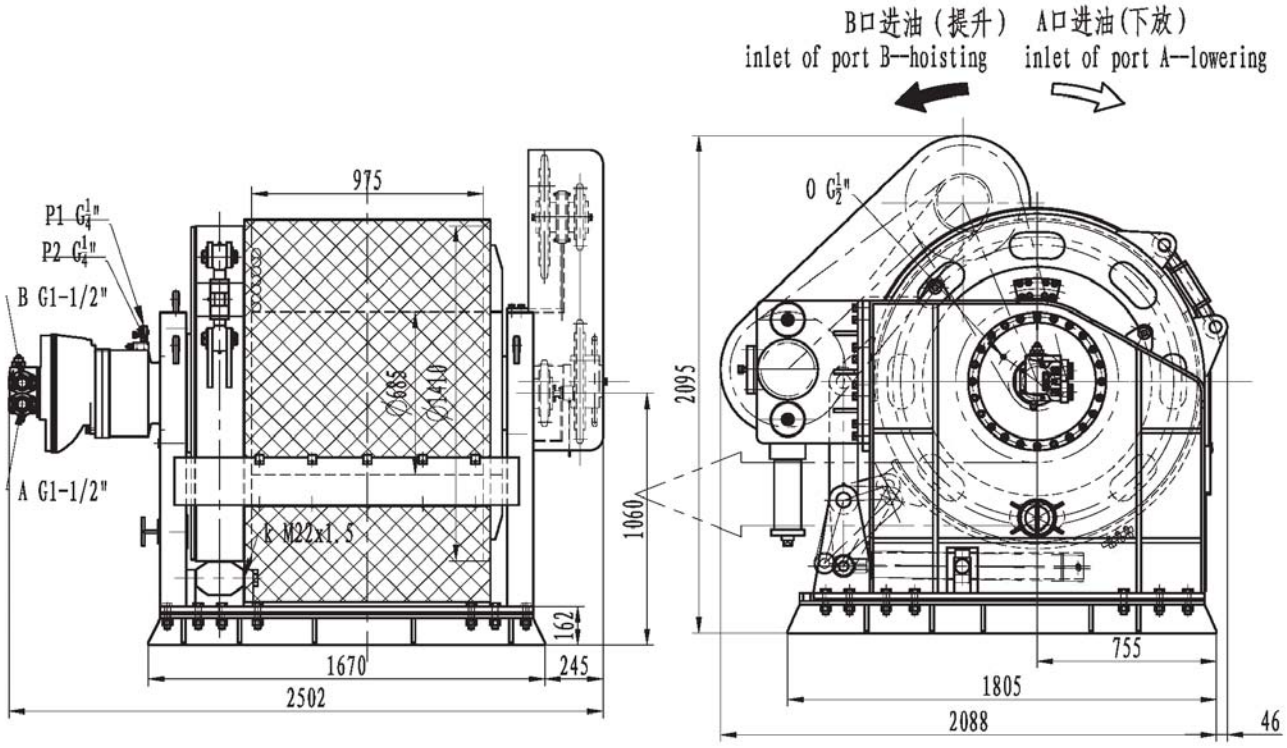
绞车主要技术参数
Winch main Specification

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

液压原理图
Hydraulic principle diagram



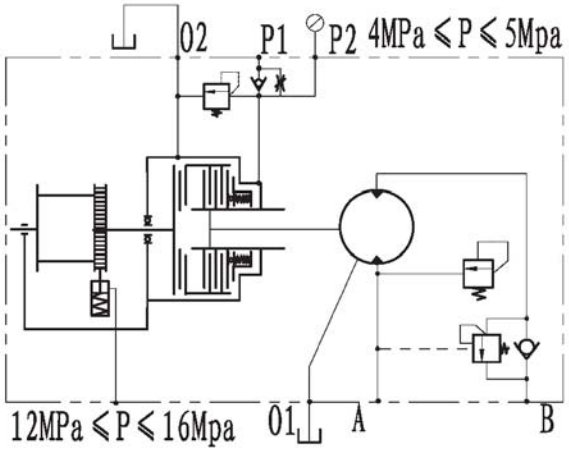
56-200-500-38-C-PDLX



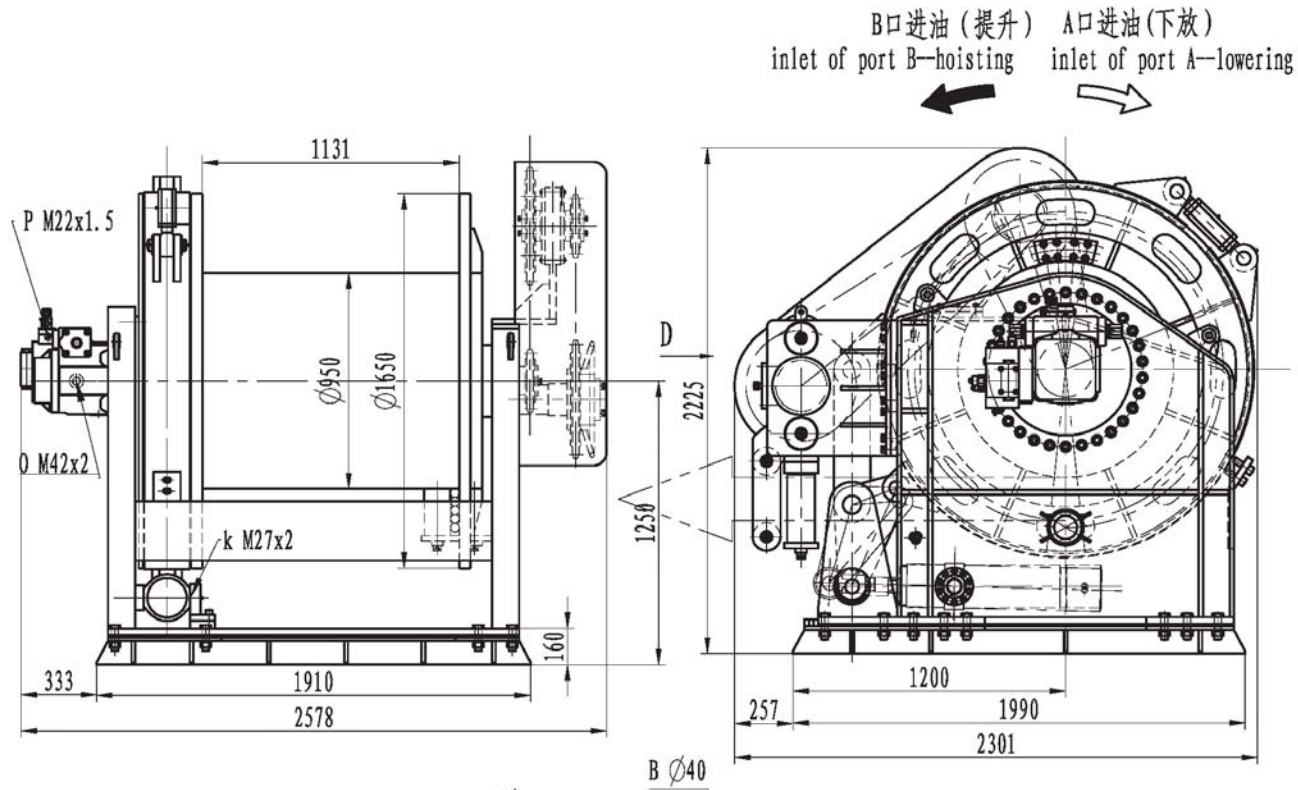
主要技术参数
Main Specification

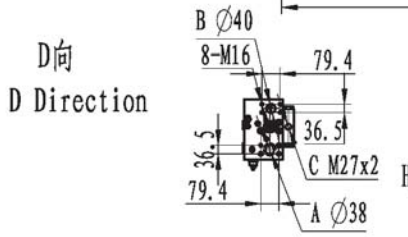
第一层拉力	Rated working pull 1st layer(kN)	200
支持负载	Brake support load(KN)	600
第一层绳速	Speed 1st layer(m/min)	15.6
总排量	Drum displacement(mL/r)	40936
系统压力	System rated pressure(MPa)	16
钢丝绳直径	Diameter of rope(mm)	$38^{+0.75}_{0}$
层数	Number of rope layers	7
容绳量	Capability of drum(m)	500
供油流量	Pump flow(L/min)	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

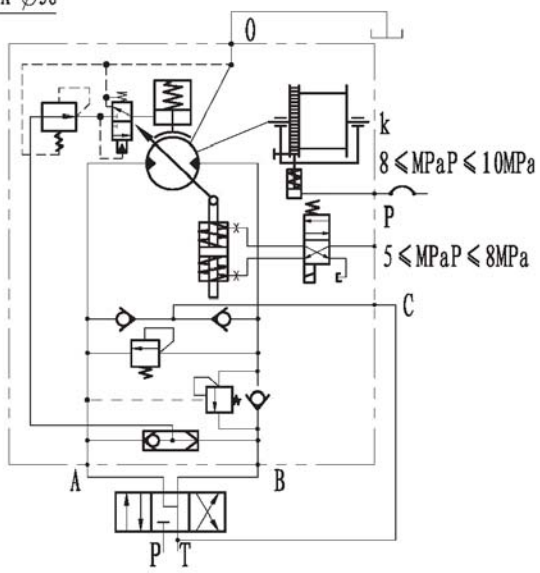


699-350/140-500-38-ZPGSDXB





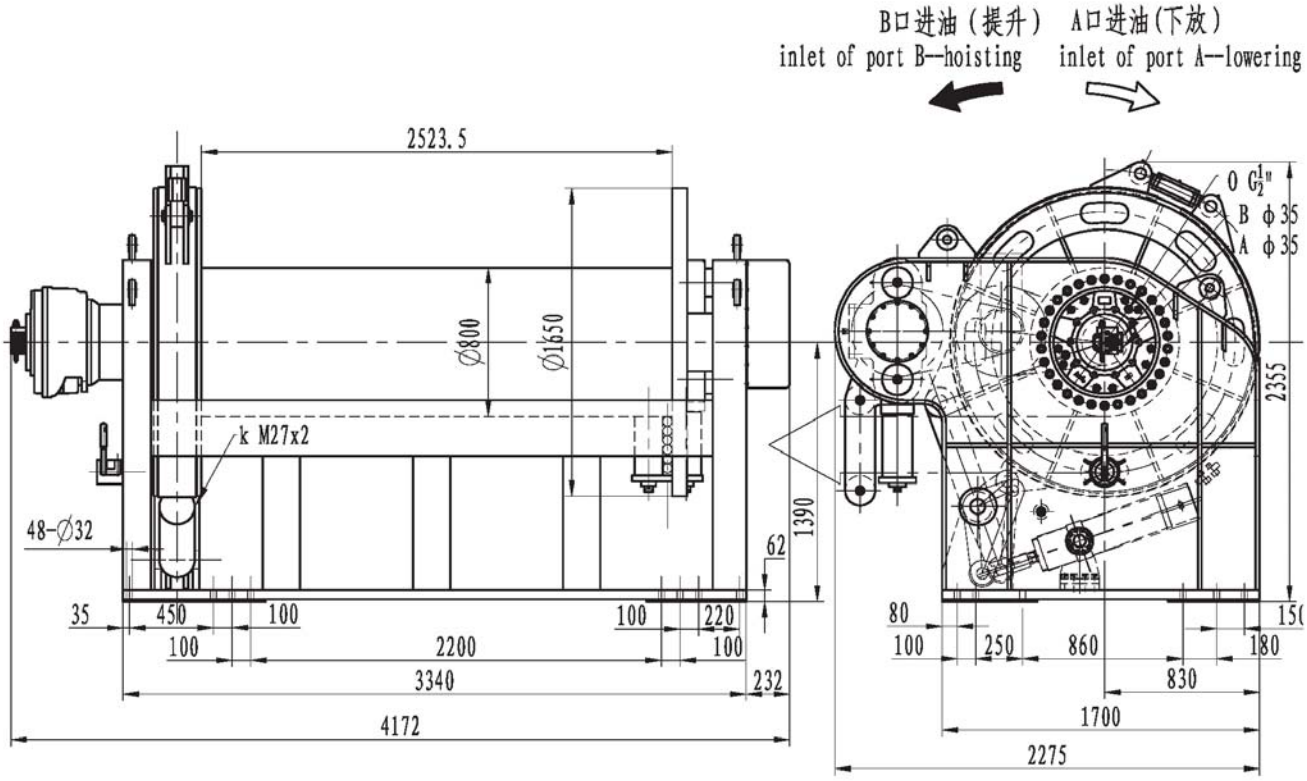
液压原理图
Hydraulic principle diagram



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)

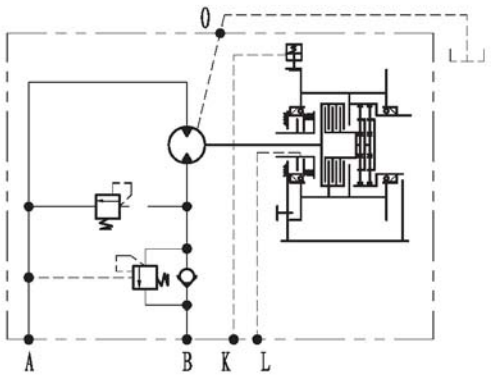
99-600-1000-50-C-PDLX



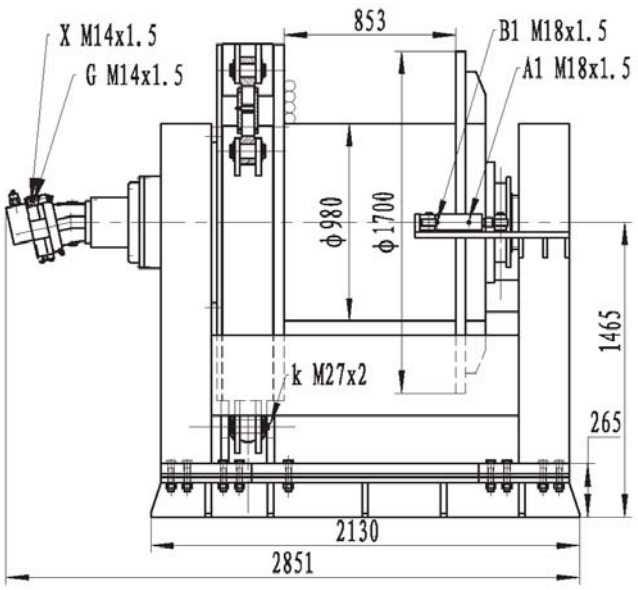
主要技术参数
Main Specification

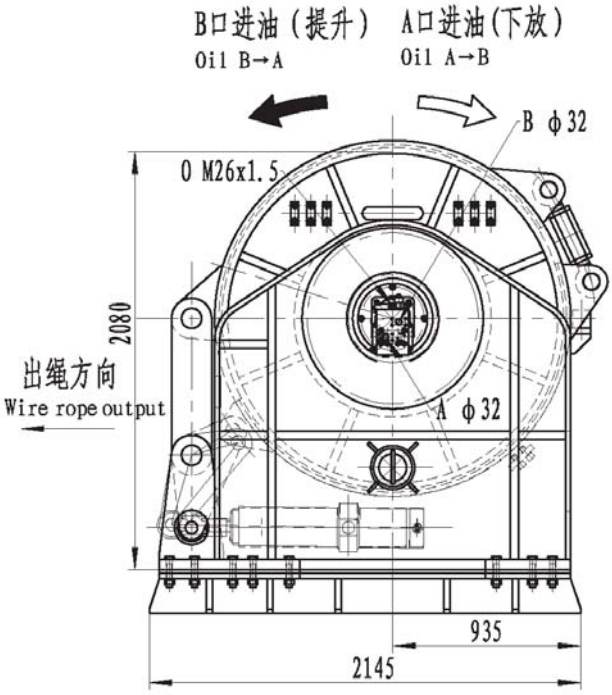
第一层拉力	Rated working pull 1st layer(kN)	600
支持负载	Brake support load(KN)	900
第四层绳速	Speed fouth layer(m/min)	5
总排量	Drum displacement(mL/r)	90744.43
系统压力	System rated pressure(MPa)	22
钢丝绳直径	Diameter of rope(mm)	50^{+1}_{0}
层数	Number of rope layers	6
容绳量	Capability of drum(m)	1000
供油流量	Pump flow(L/min)	139(η 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

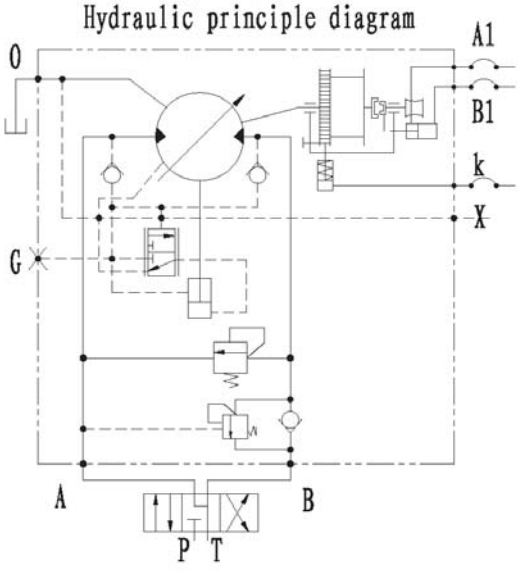




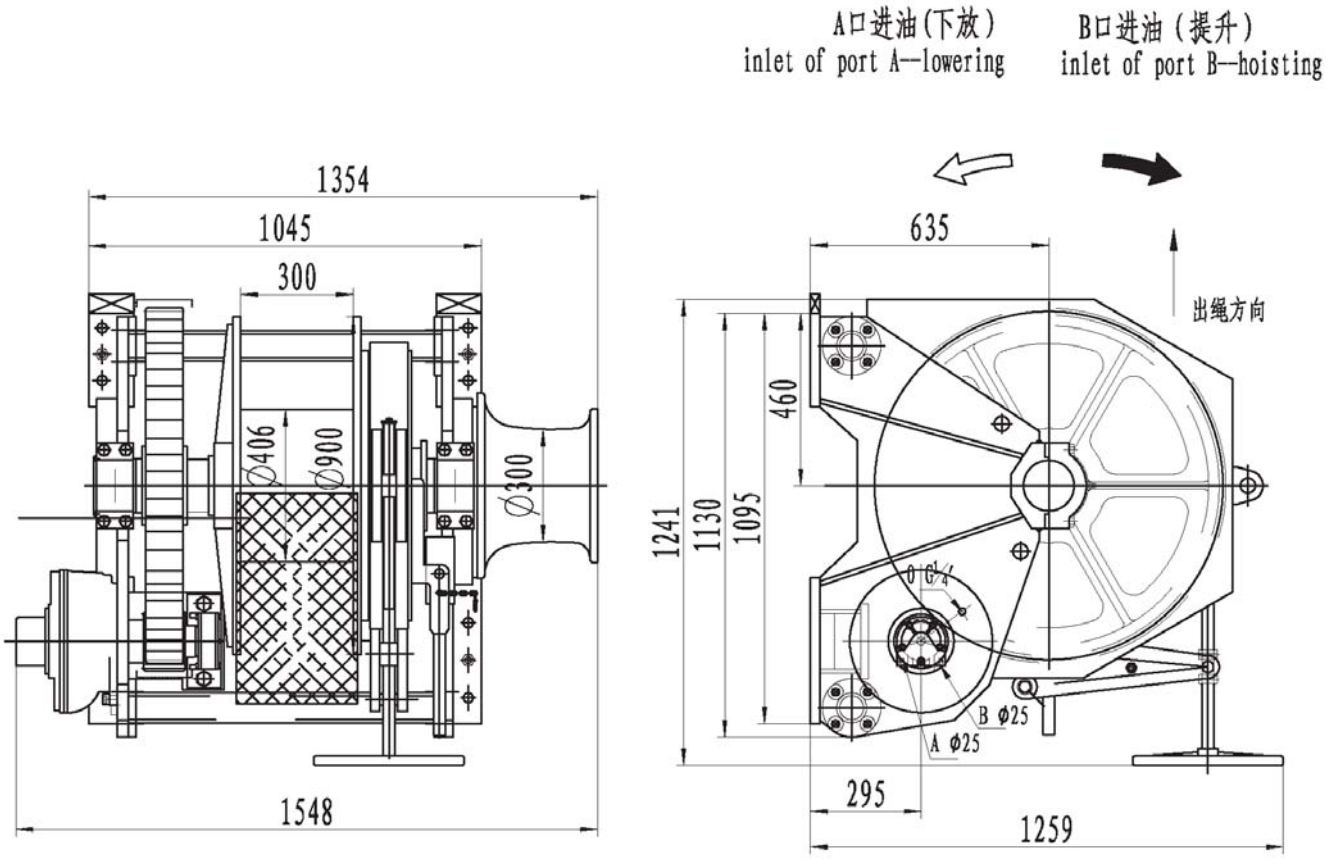
主要技术参数
Main Specification

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



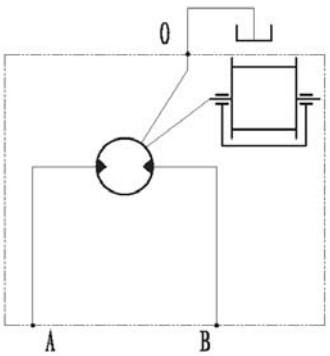
二、开式齿轮箱驱动的系泊绞车 IYJK08-50-150-22-PDL



绞车主要技术参数
Winch main Specification

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

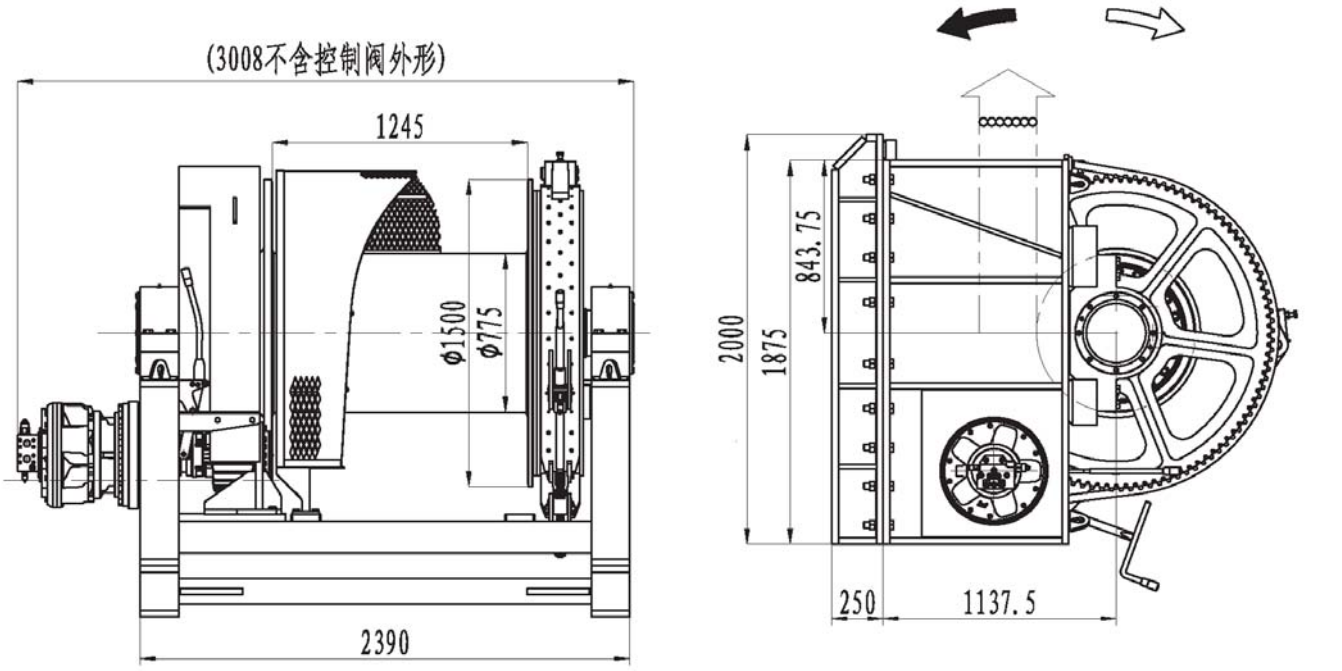
液压原理图
Hydraulic principle diagram



IYJK12-150-500-32-ZPD

B口进油（提升）
inlet of port B--hoisting

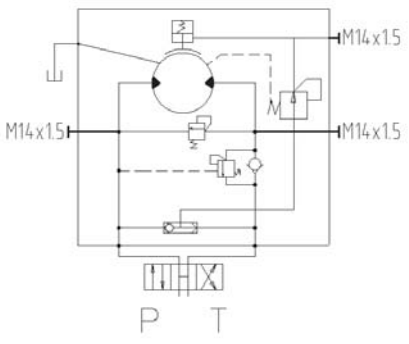
A口进油(下放)
inlet of port A--lowering



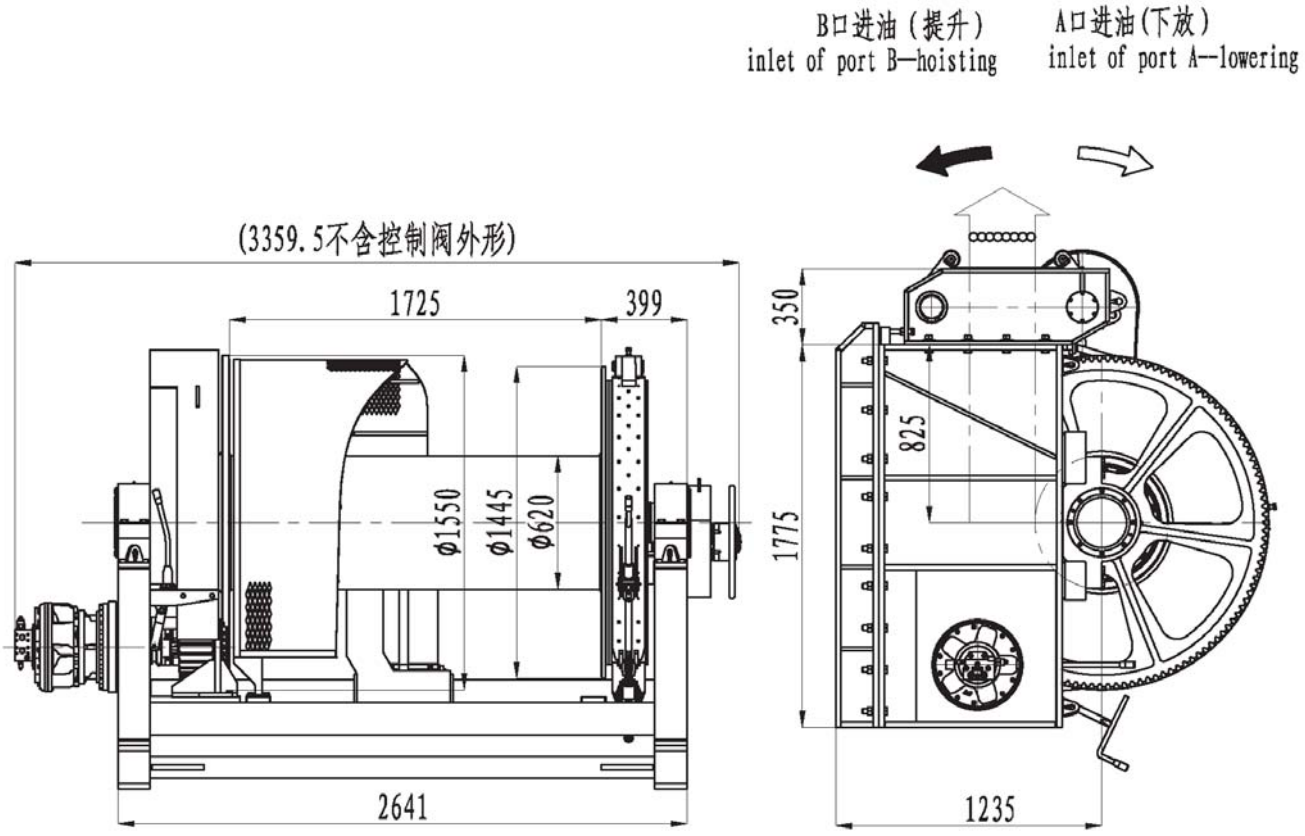
绞车主要技术参数
Winch main Specification

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

液压原理图
Hydraulic principle diagram



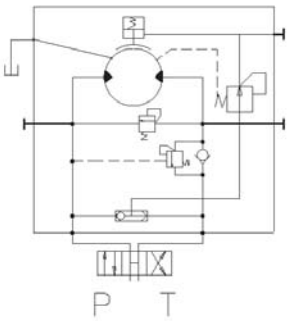
IYJK12-200-1000-38-ZPD



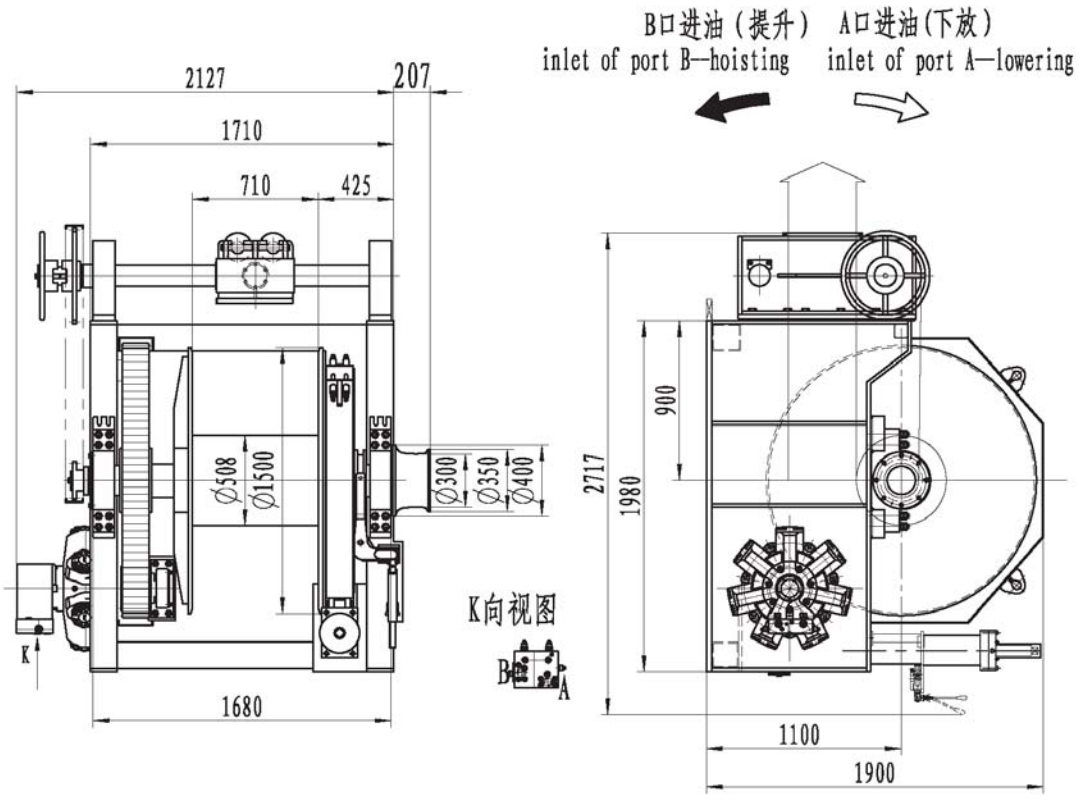
绞车主要技术参数
Winch main Specification

第四层拉力	Rated working pull 4ur layer(kN)	200
第二层绳速	Speed 2nd layer(m/min)	12
总排量	Drum displacement(mL/r)	6138
系统压力	System rated pressure(MPa)	20
钢丝绳直径	Diameter of rope(mm)	38
层数	Number of rope layers	8
容绳量	Capability of drum(m)	1000
供油流量	Pump flow(L/min)	237(η v=0.9)
液压马达型号	Hydraulic motor type	INM4-1100D480111P

液压原理图
Hydraulic principle diagram



IYJK12-300-800-30-PDL



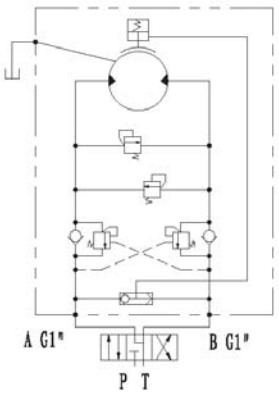
绞盘主要技术参数
Capstan main Specification

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

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

液压原理图
Hydraulic principle diagram

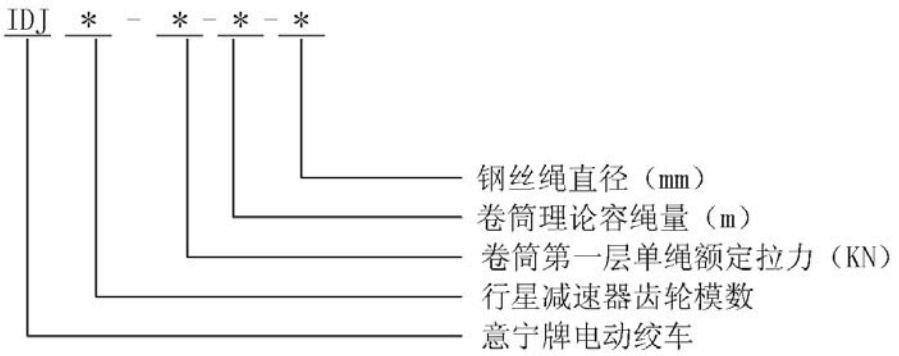


● IDJ 系列电动绞车

1、概述：

IDJ 系列电动绞车由带制动器的电动机或变频电动机、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：

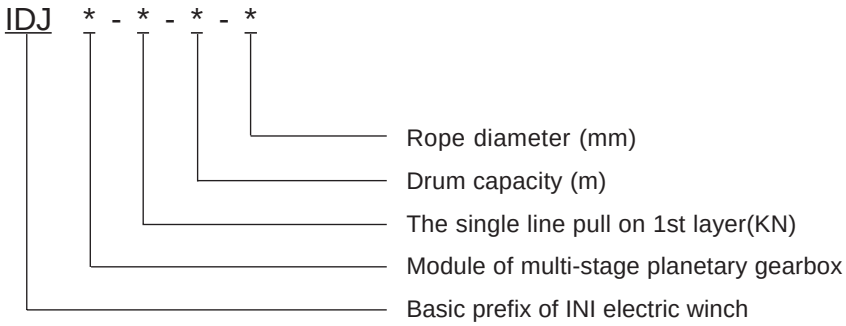
IDJ23-10-30-14 表示此绞车的行星减速器为双级行星减速器，第一级齿轮模数为 2，第二级齿轮模数 3，钢丝绳的第一层额定拉力为 10KN,卷筒理论容绳量为 30m,钢丝绳直径为 14mm。

IDJ Electric Winch Series

1. Brief Introduction

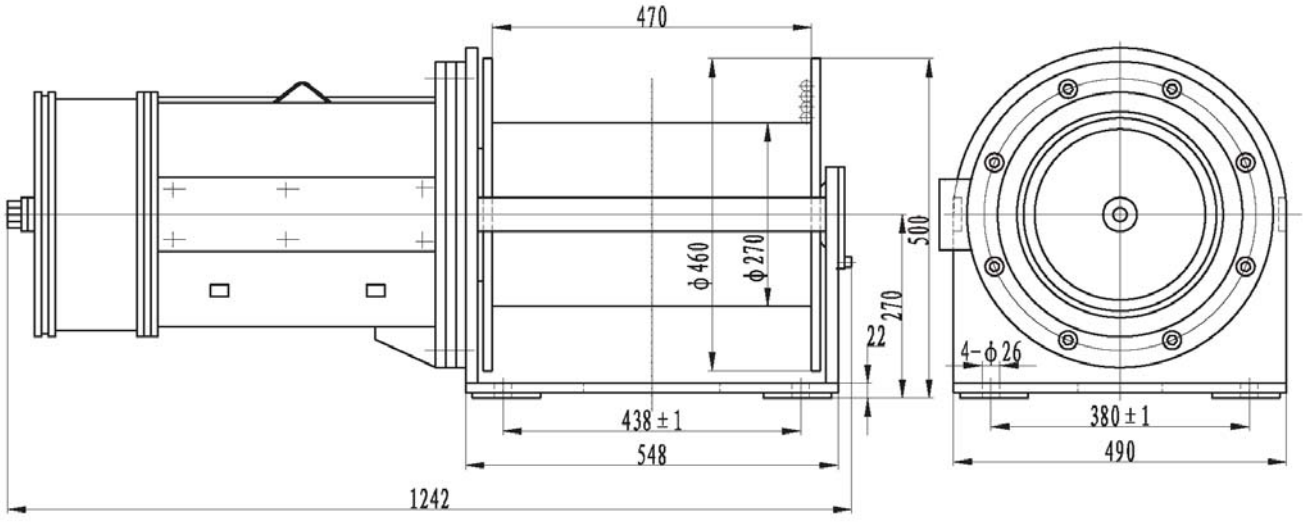
IDJ electric winch series consist of electromotor with brake, planetary gearbox, drum, and frame. The customer only equip electric box for winch performance. The series feature compact design, simply and rugged construction, high reliability, and good economy. Therefore they have been widely applied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

2. Model Options



3. Options Example

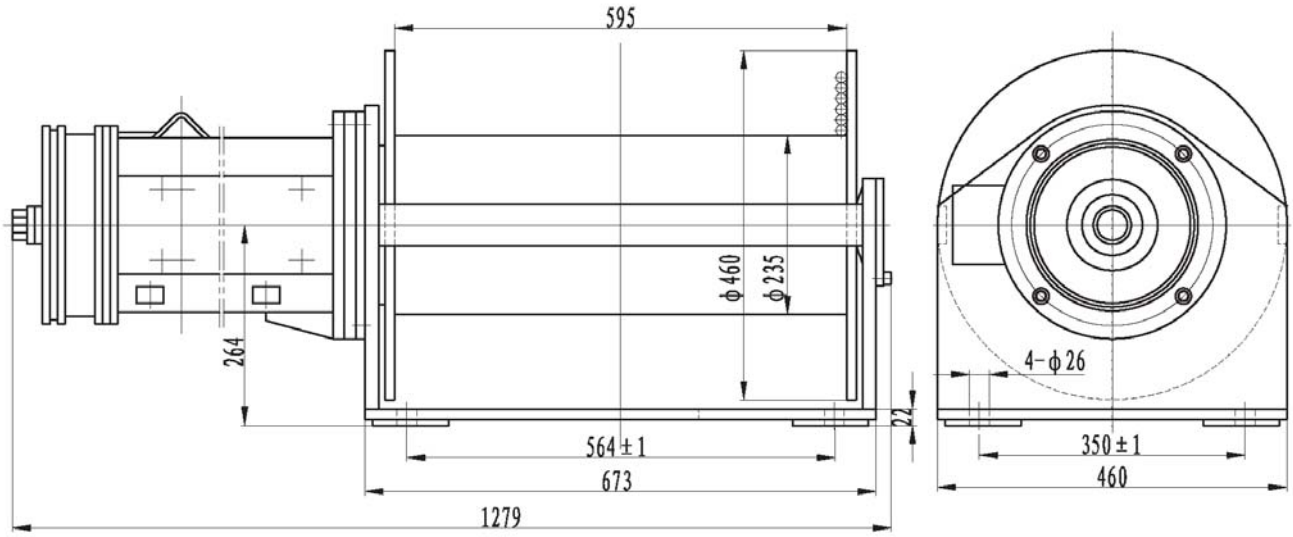
IDJ23-10-30-14 represents that the electric winch adopts two stages planetary gearbox, the modules of gearbox are 2.5 and 3 respectively, the single line pull on 1st layer is 10kN, the drum capacity is 30m, and the rope diameter is 14mm.



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.



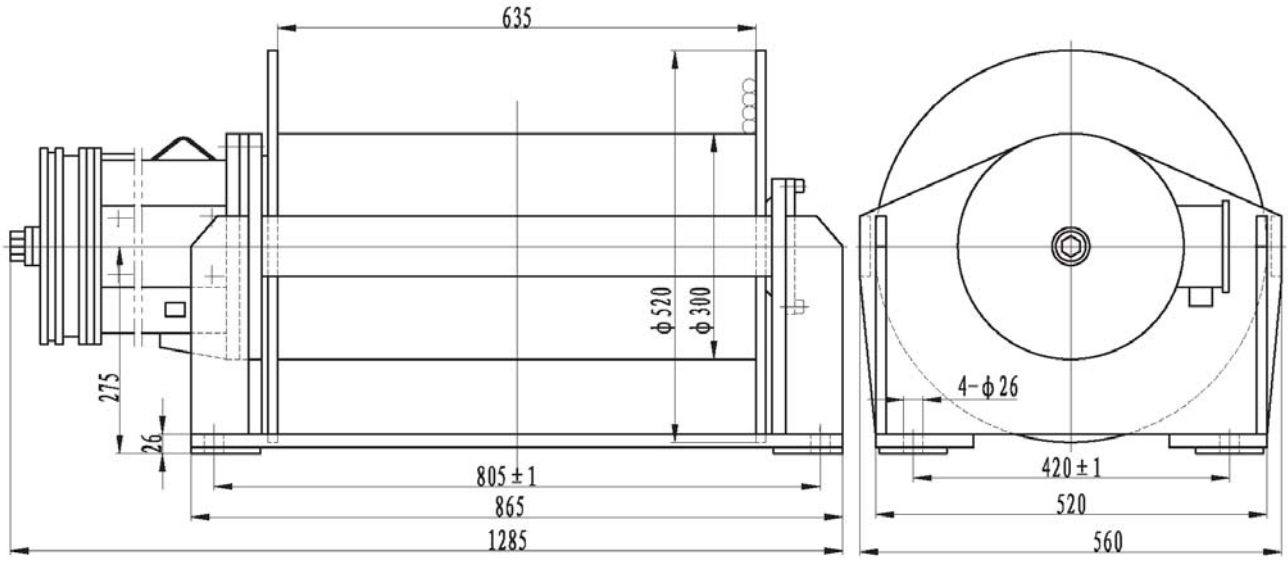
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ22.2.5-22-250-14	22	2.2/6.6	14	6	250	JZ2-H-23-4/12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



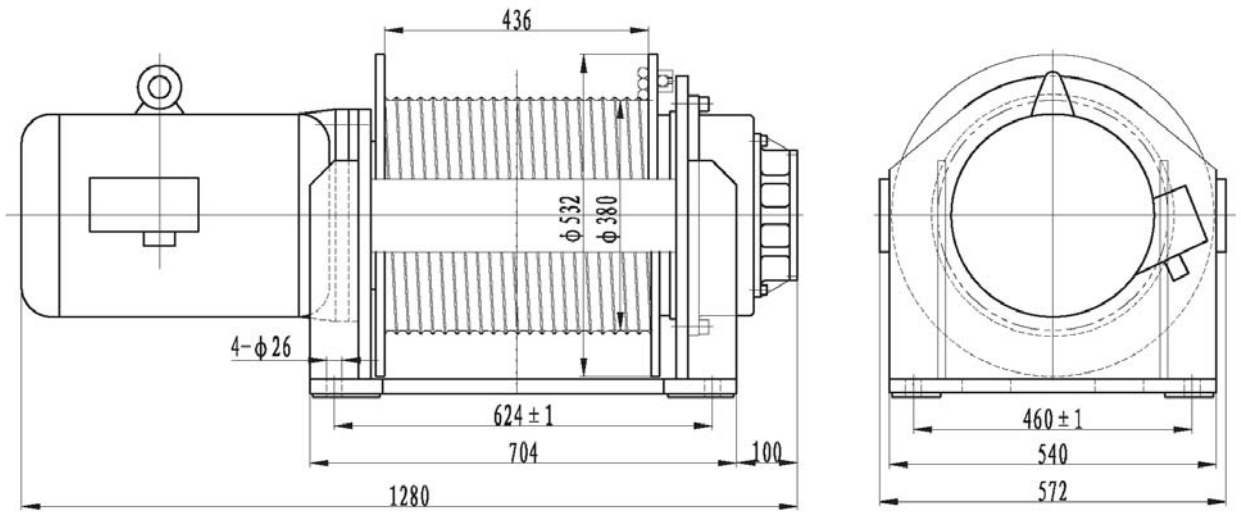
型号 Model	第一层 the 1st layer 拉力 Pull (KN)	第一层 the 1st layer 绳速 Speed (m/min)	钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor 电压 Volt (V)	电制 Parameter of electromotor 电流 Current (A)	电制 Parameter of electromotor 频率 Frequency (Hz)	减速器传动比 Ratio	电机功率 Power (KW)
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.



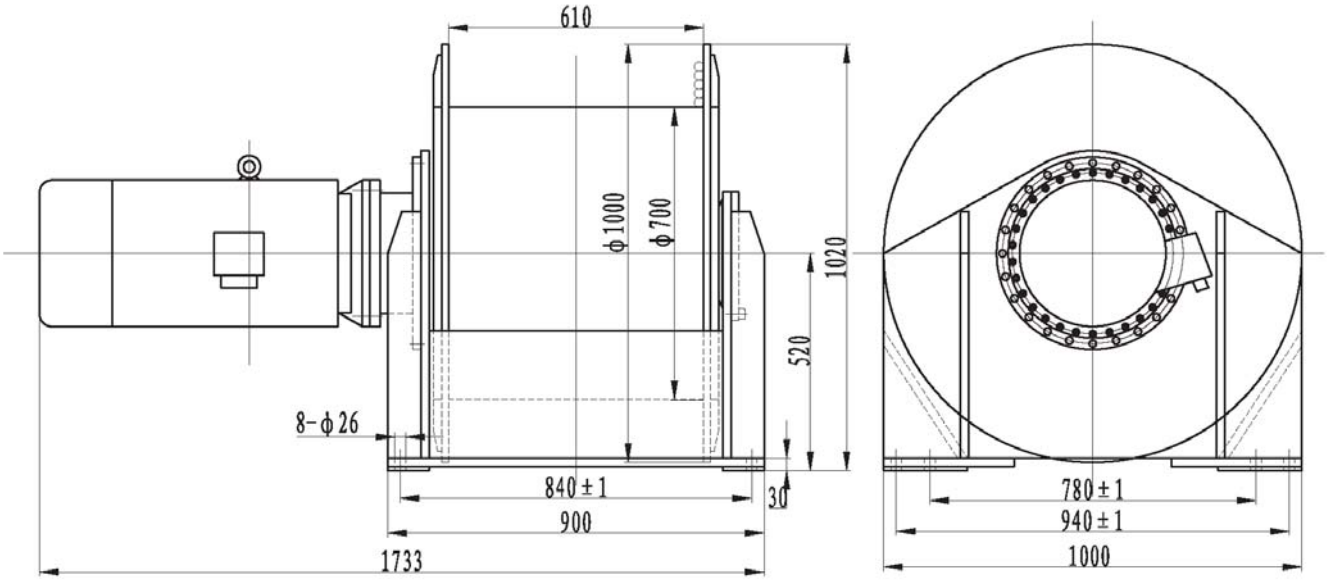
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ234-60-96-18	60	9	18	3	96	YEJ160M-4-B5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



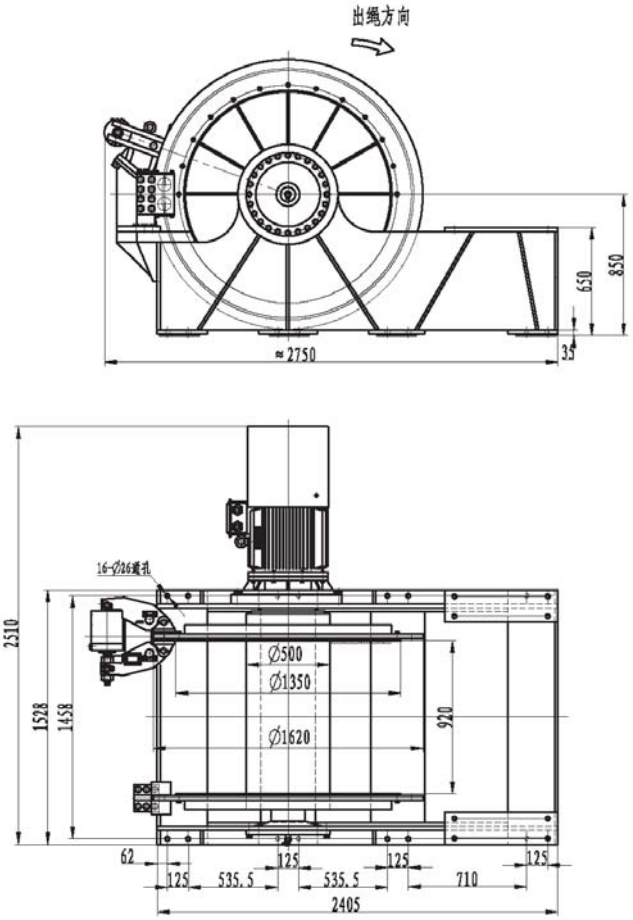
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电 制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ345-85-340-21.5	85	19	21.5	5	340	YEJ200L-4-B5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



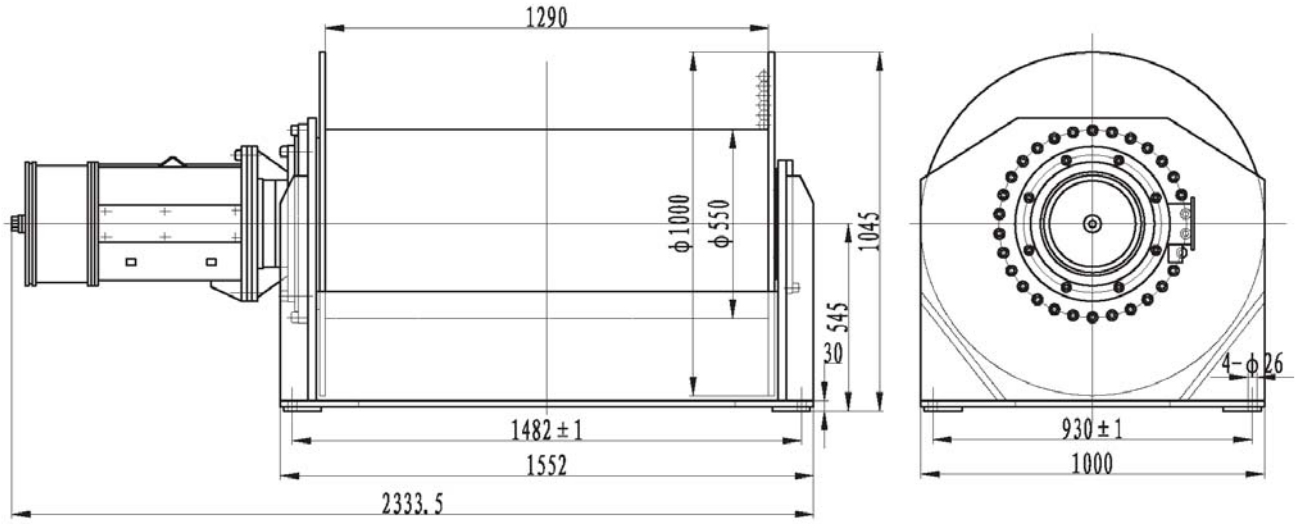
型 号 Model	第一层 the 1st layer		钢丝绳直径 Diameter of rope (mm)	层数 layer	容绳量 Capacity of rope (m)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	频率 Frequency (Hz)		
IDJ35.55.5-55-3500-16	55	25	16	23	3500	YVF2-250M-4-H-B35	380	50	98	55

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.



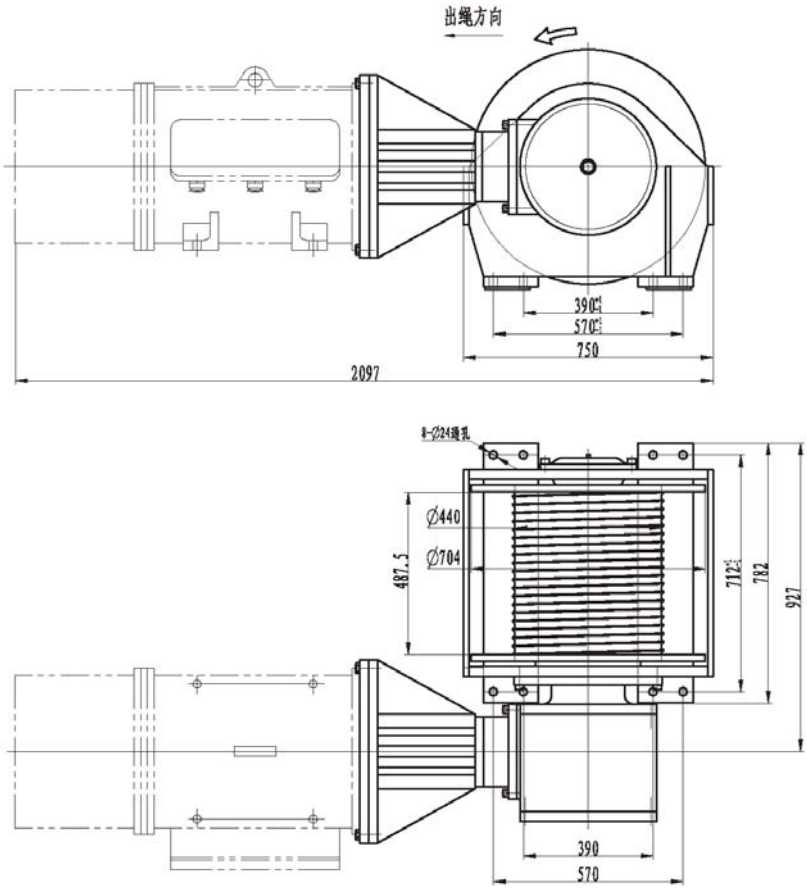
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 (V) Volt (V)	电流 (A) Current (A)	频率 (Hz) Frequency (Hz)		
IDJ356-150-600-28	150	7	28	6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



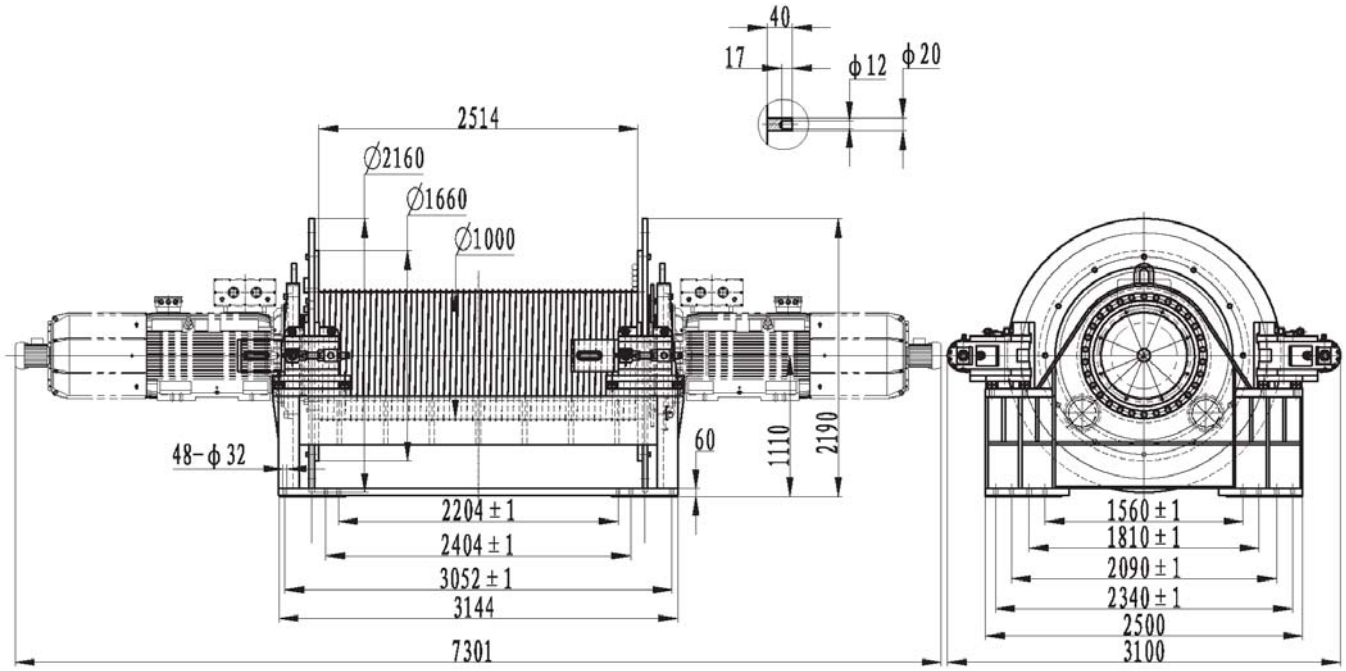
型 号 Model	第一层 the 1st layer		钢丝绳直径 Diameter of rope (mm)	层数 layer	容绳量 Capacity of rope (m)	电机型号 Model of electromotor	电制 Parameter of electromotor		减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	频率 Frequency (Hz)		
IDJ544-63-93-24	63/73	24.5/11	24	3	93	YZ250M-6/12-H-B35	440	60	67.083	16/30

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 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；

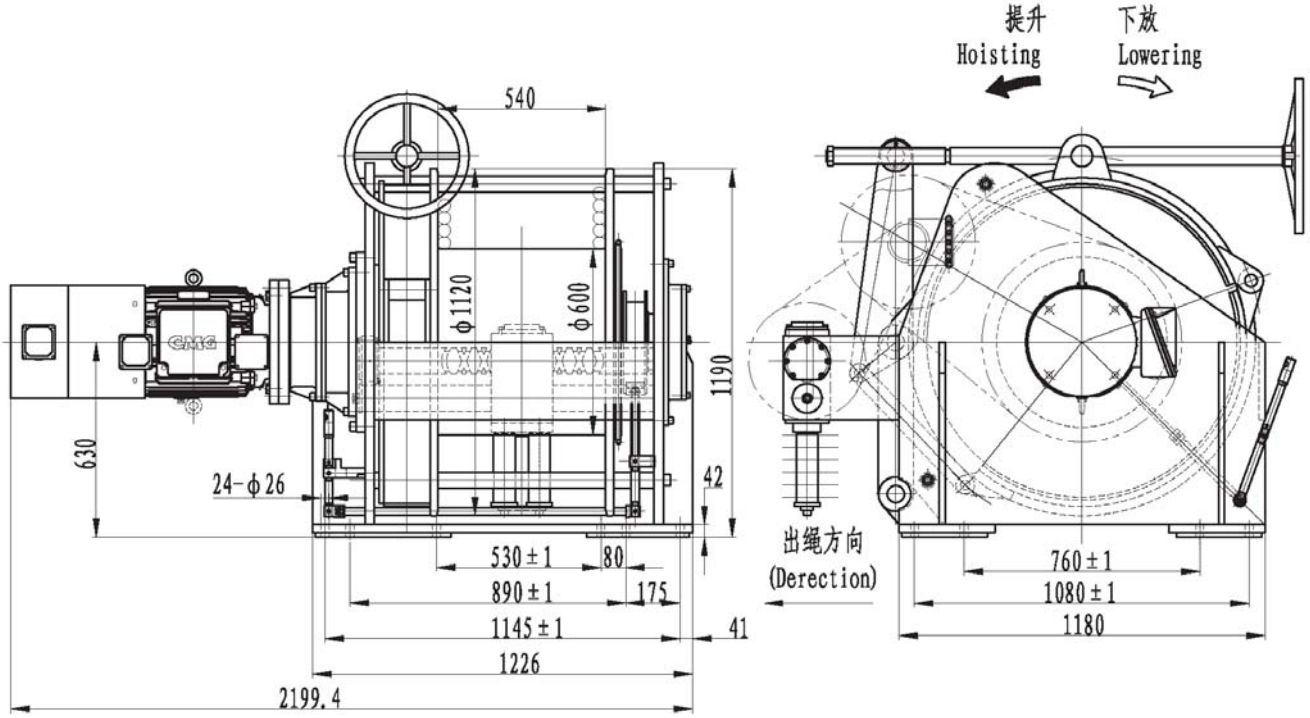
2. 容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出；

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.

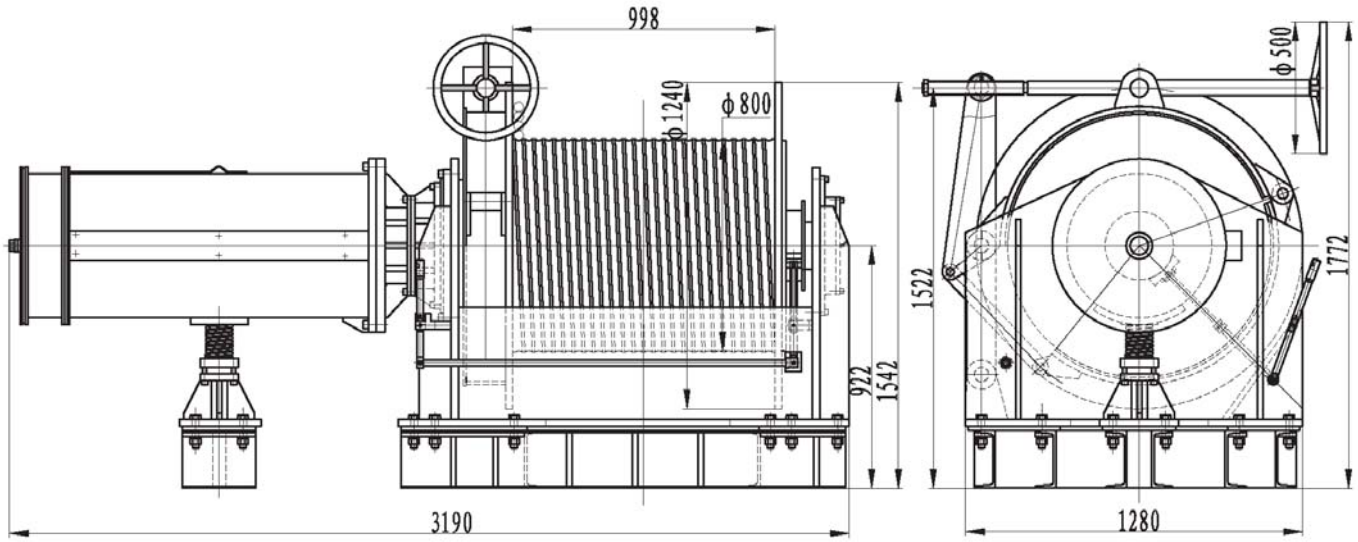
电动系泊绞车



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.



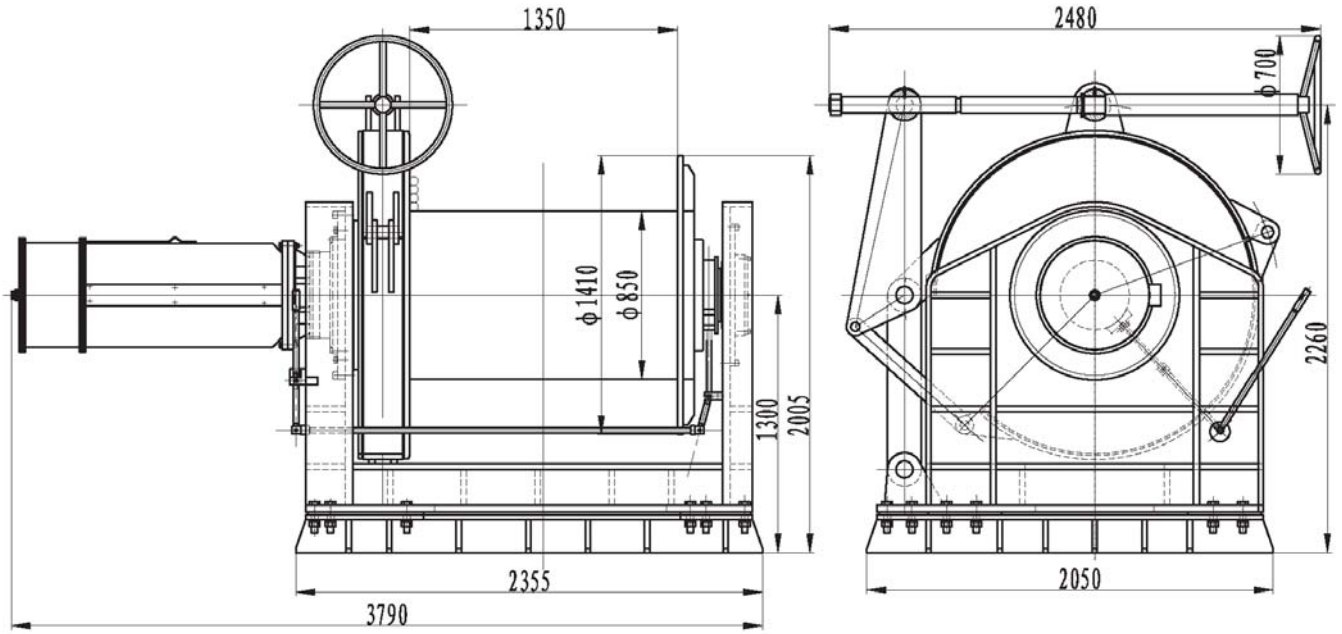
型 号 Model	第一层 the 1st layer		钢丝绳直径 Rope diameter (mm)	层数 layer	容绳量 Wire rope capacity (m)	电机型号 Model of electromotor	电制 Parameter of electromotor			减速器传动比 Ratio	电机功率 Power (KW)
	拉力 Pull (KN)	绳速 Speed (m/min)					电压 Volt (V)	电流 Current (A)	频率 Frequency (Hz)		
IDJ456-150-300-36	100/150	36/18	36	4	300	JZ2-H-72-4/8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

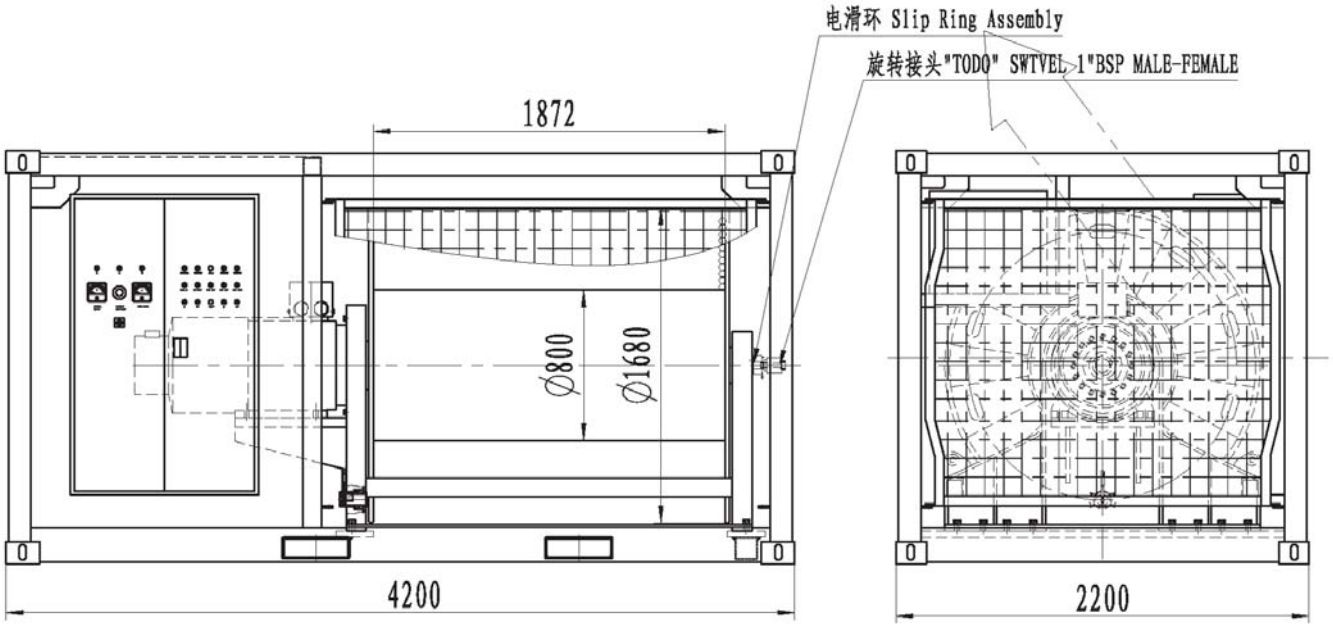
注：1.容绳量为绞车的理论容绳量，实际允许的有效容绳量应考虑保留钢丝绳3圈以防绳头脱出；

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.

恒涨力电动电缆绞车



绞车主要技术参数
Winch main Specification

第一层拉力	Rated working pull 1st layer(kN)	35
第一层绳速	Speed 1st layer(m/min)	93.5
钢丝绳直径	Diameter of rope(mm)	35
层数	Number of rope layers	11
容绳量	Capability of drum(m)	2000
电机型号	Motor type	3BWAG 280S/M-04E-TF-SH-BR
最大功率	Rated output power of the Motor(kW)	75
最高转速	Max input speed of the Motor(r/min)	1480
齿轮箱型号	Planetary gearbox type	IGC26(i=41.1)

● IMYJ 系列液压摩擦轮绞车

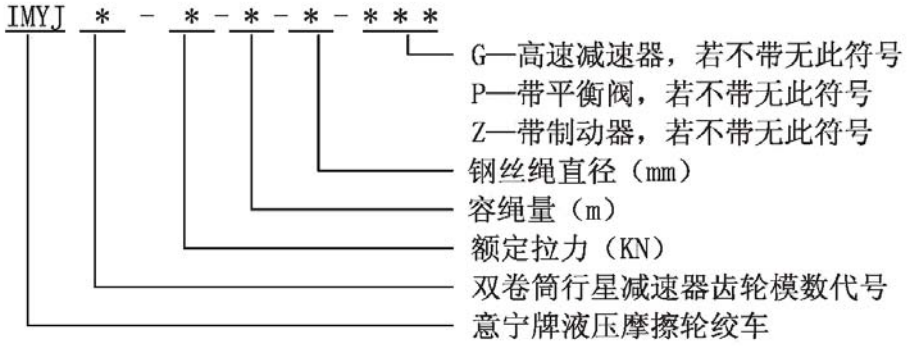
1、概述：

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

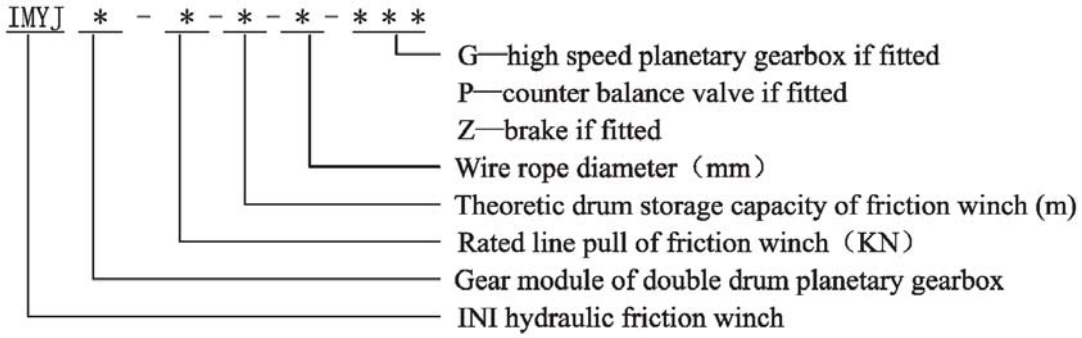
1. Brief introduction

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.

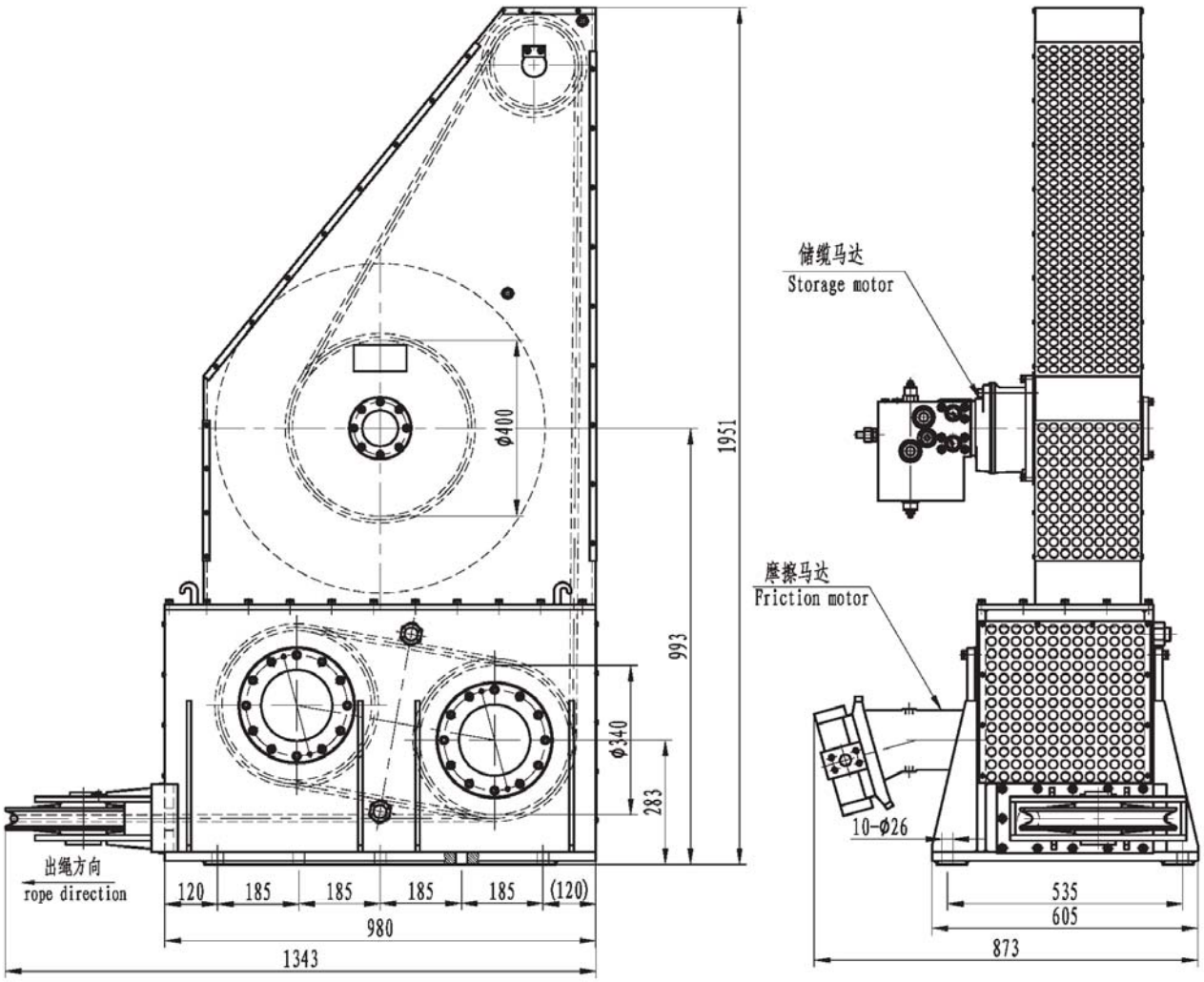
2. Model no. explanation



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.

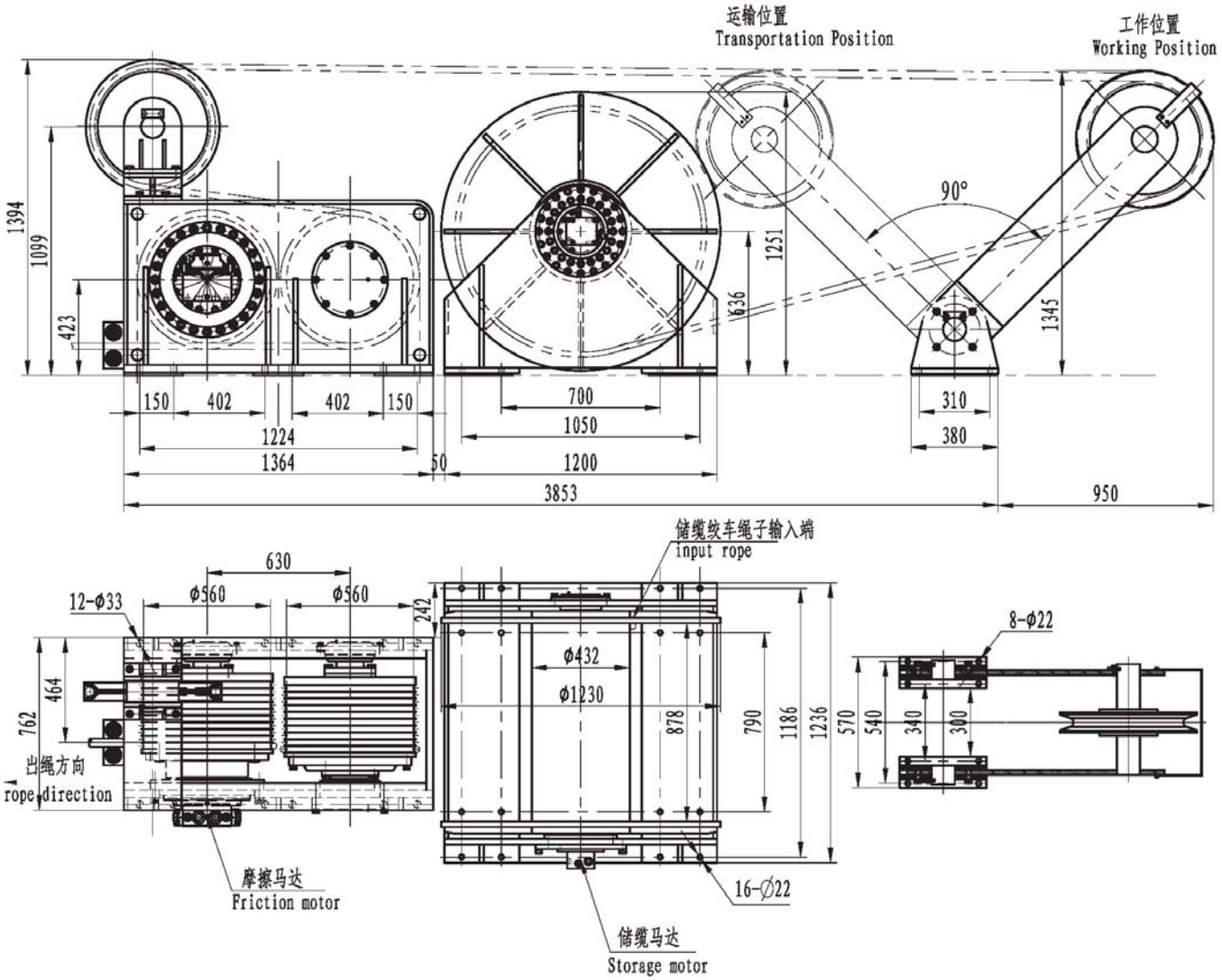
33-65-120-16-ZPG



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

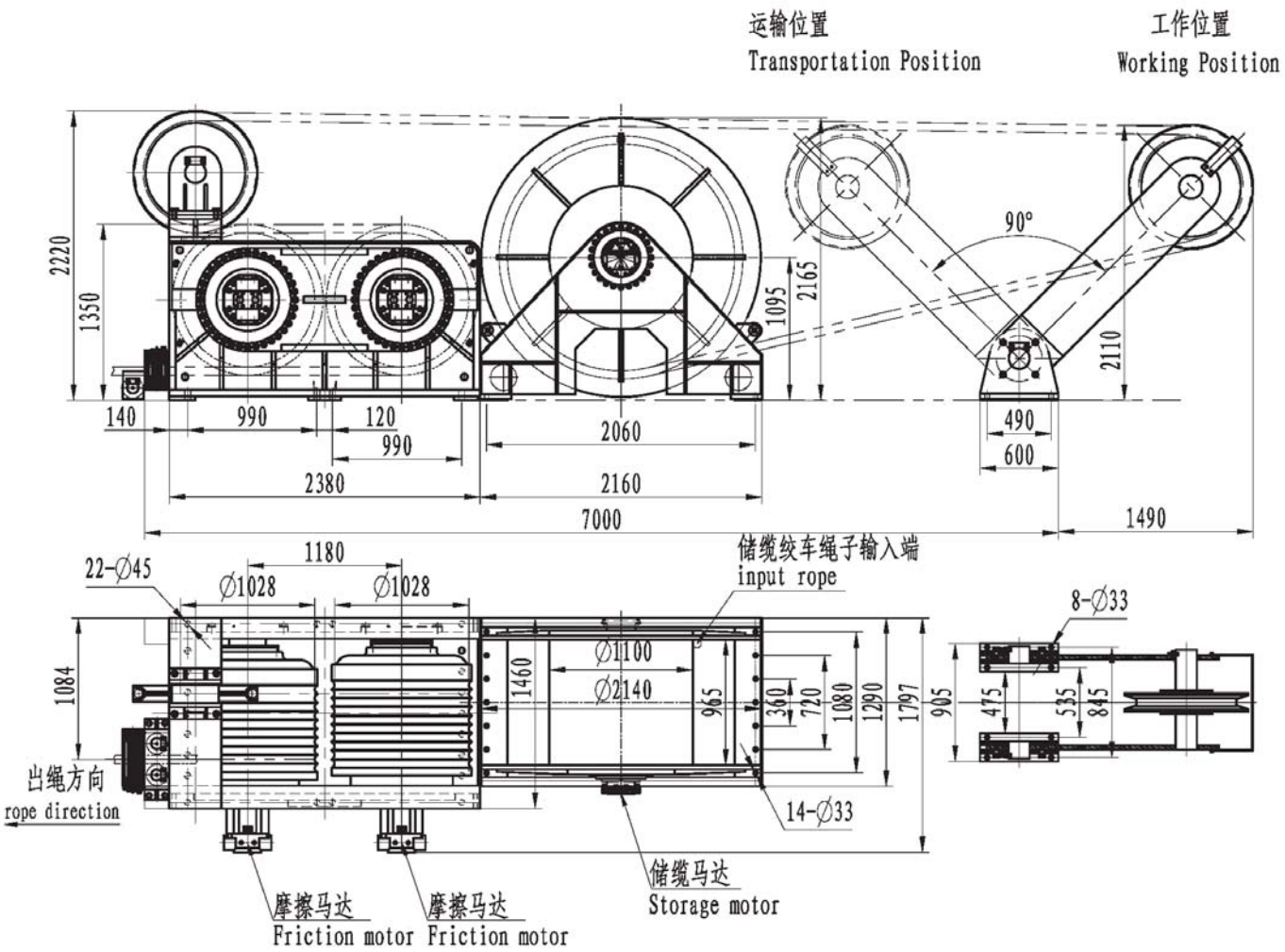
466-300-900-27-ZPG



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

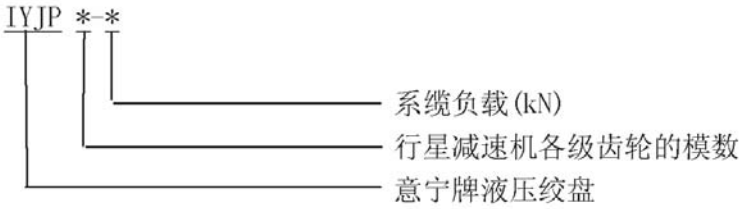
双卷筒绞车 Twin drum winch	第一层拉力	Pull on the 1st layer(T)	150
	第一层绳速	Speed at 1st layer(m/min)	0-5
	系统额定压力	System rated pressure(MPa)	26
	工作压差	Working pressure diff. (MPa)	25
	输出扭矩	Output torque(N.m)	723000
	卷筒排量	Drum displacement(mL/r)	113000x2
	钢丝绳直径	Diameter of rope(mm)	63
	马达型号	Hydraulic motor type	A4FM500x2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

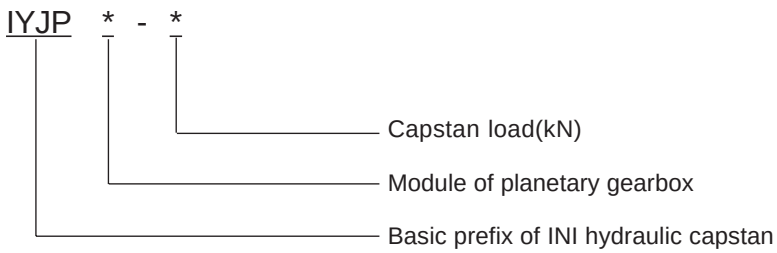
a. 总排量是指绞盘每转所需供给的理论供油量(ml/r)。
b. 供油流量是指泵的理论供油流量。
c. 工作压差为绞车工作时液压马达进出油口的压力差(MPa)。

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

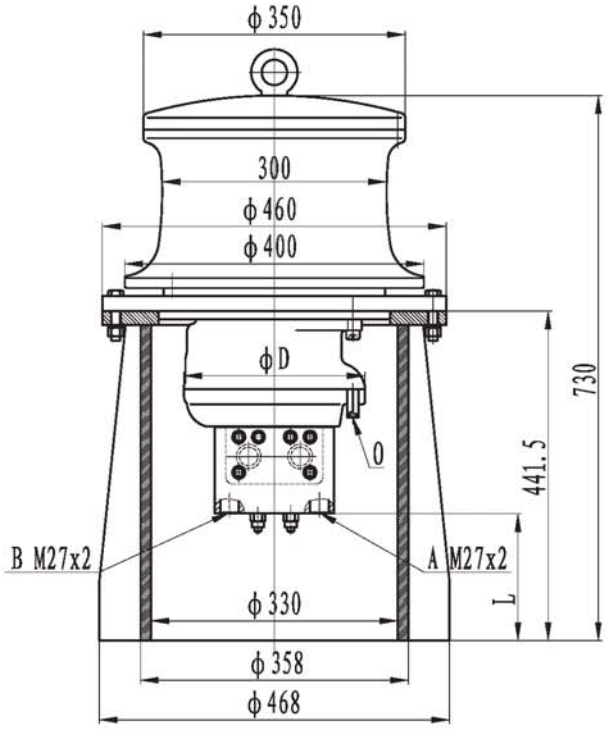


3. Options Example

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.

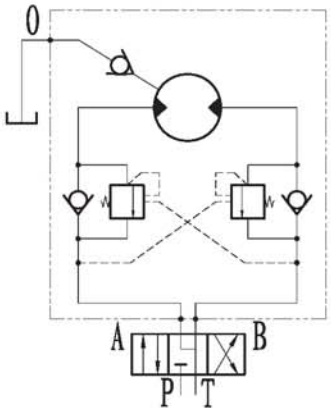


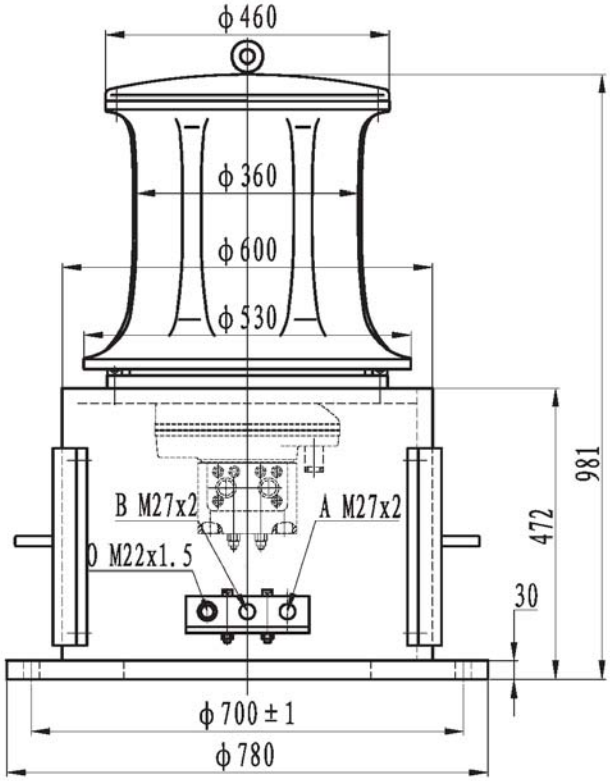
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model	D	L	O
IYJP3-10	10	25	13	14	860	25	INM1-175D47+F1202	C3AC(I=5)	242	170.6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



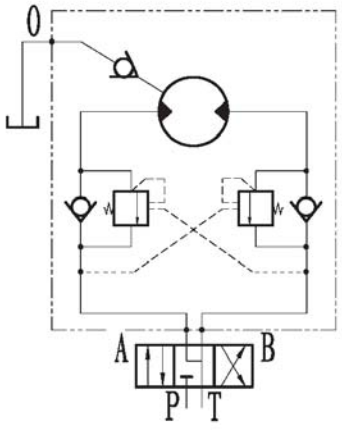


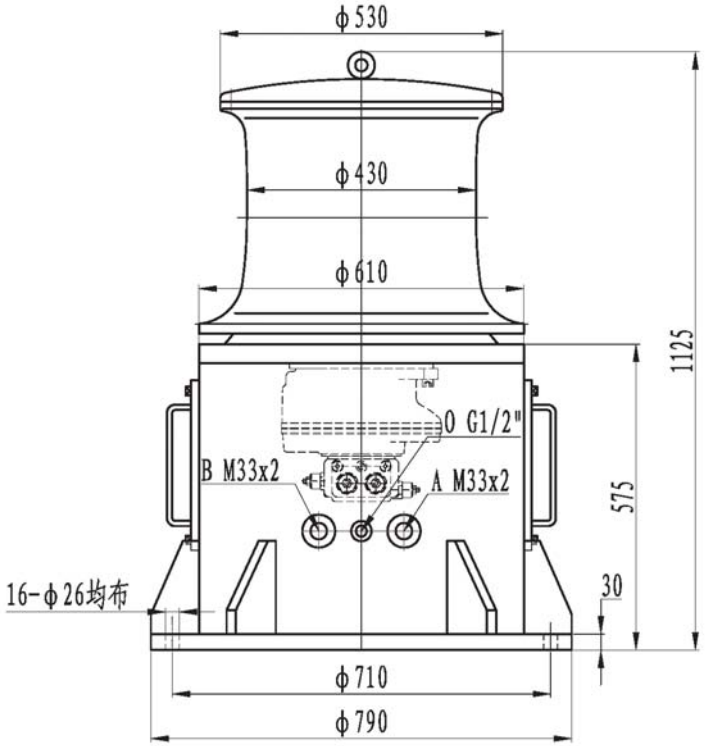
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP4-40	40	15	20	14.5	3955	56	INM2-600D47+F1202	C4C(I=7)
IYJP4-50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



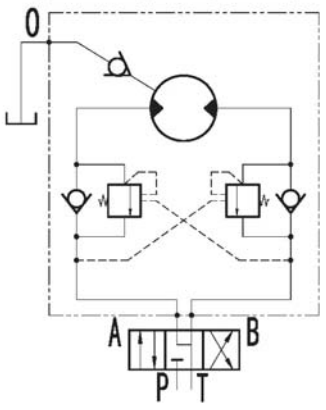


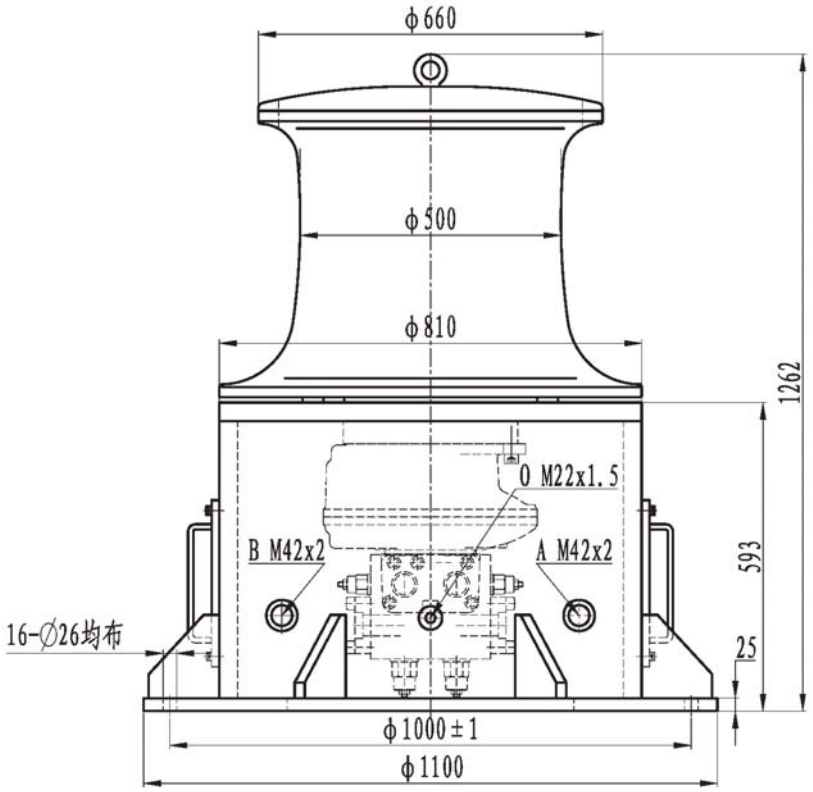
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP34-80	80	12	24	12	11900	111	INM2-420D240221	C34C(I=28)
IYJP34-90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

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.

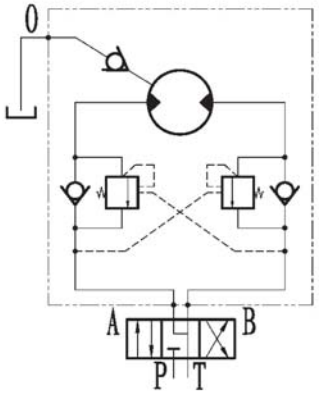
液压原理图
Hydraulic principle diagram





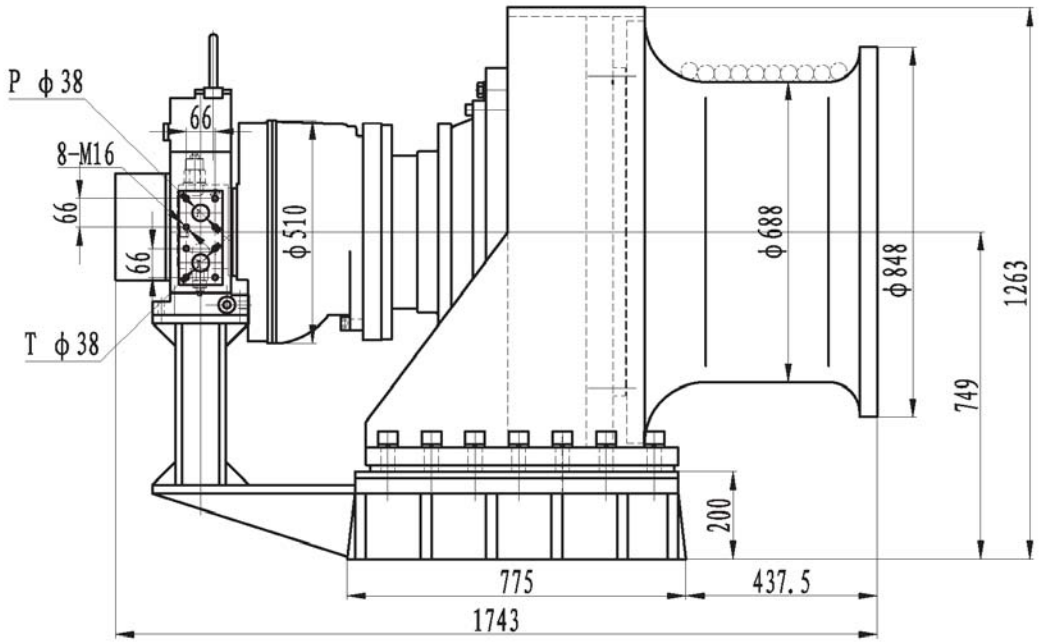
型号 Model	系缆负载 System load (KN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	工作压差 Working pressure differential (MPa)	总排量 Displacement (ml/r)	供油流量 Oil supply (L/min)	液压马达型号 Hydraulic motor model	齿轮箱型号 Planetary gearbox model
IYJP45-120	120	12	30	14	17248	138	INM4-600D90+F480221	C45(I=28)
IYJP45-140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



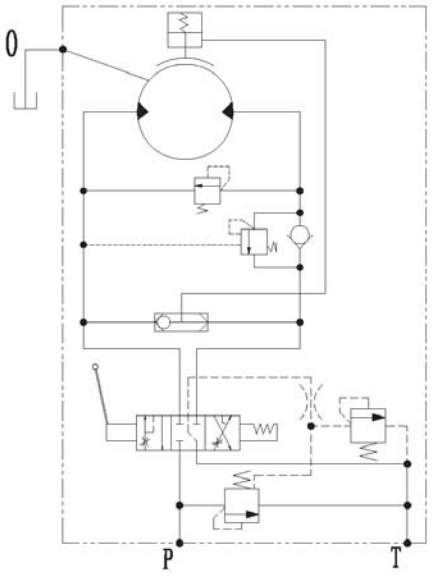
注：当3位4通换向阀需要“O”或“M”机能时马达与双向平衡阀之间必须设置双向缓冲过载阀。

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.

IDJP 系列电动绞盘

1、概述

IDJP 系列电动绞盘采用了本公司专利技术，由带制动器的电机、行星减速机、绞盘头及机架等部件组成，用户只需配备电控箱即可。绞盘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

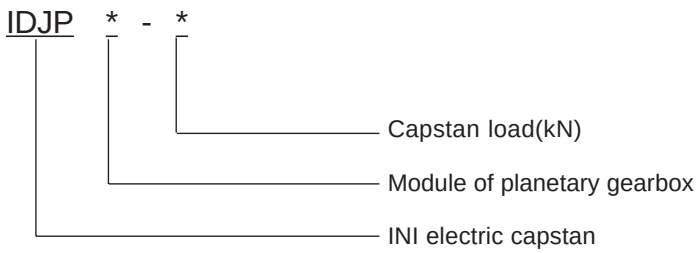
IDJP3-20 表示行星减速器一级齿轮模数为 3，系缆负载拉力为 20kN 的电动绞盘。

IDJP Electric Capstan Series

1. Brief Introduction

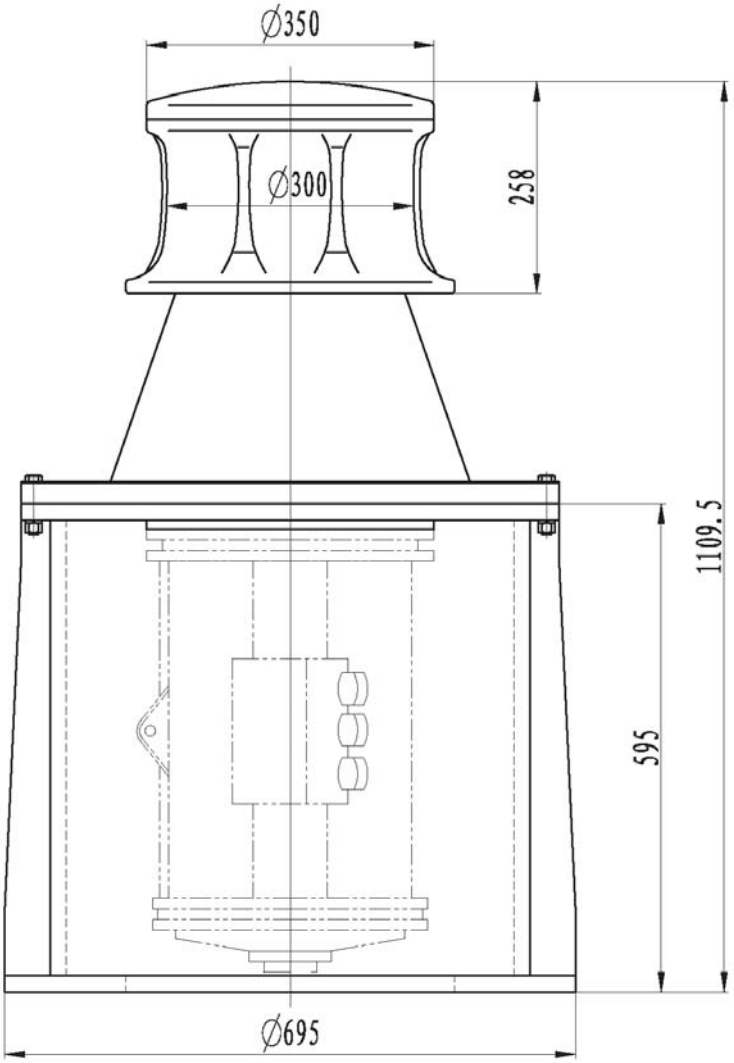
IDJP series electric capstans are patent products of our compny. They consist of electric molor with bralee, placetary gearbox.warping head and frane. Customers only need to prepare electric low noise,compact design and good econorny. Thereforc, they have been widely applied in ship and deck machinary. They are not only popular in domestrc market, but also have been exported to Southeast Asia, Australic, Holland and other countries and regions.

2. Model Options

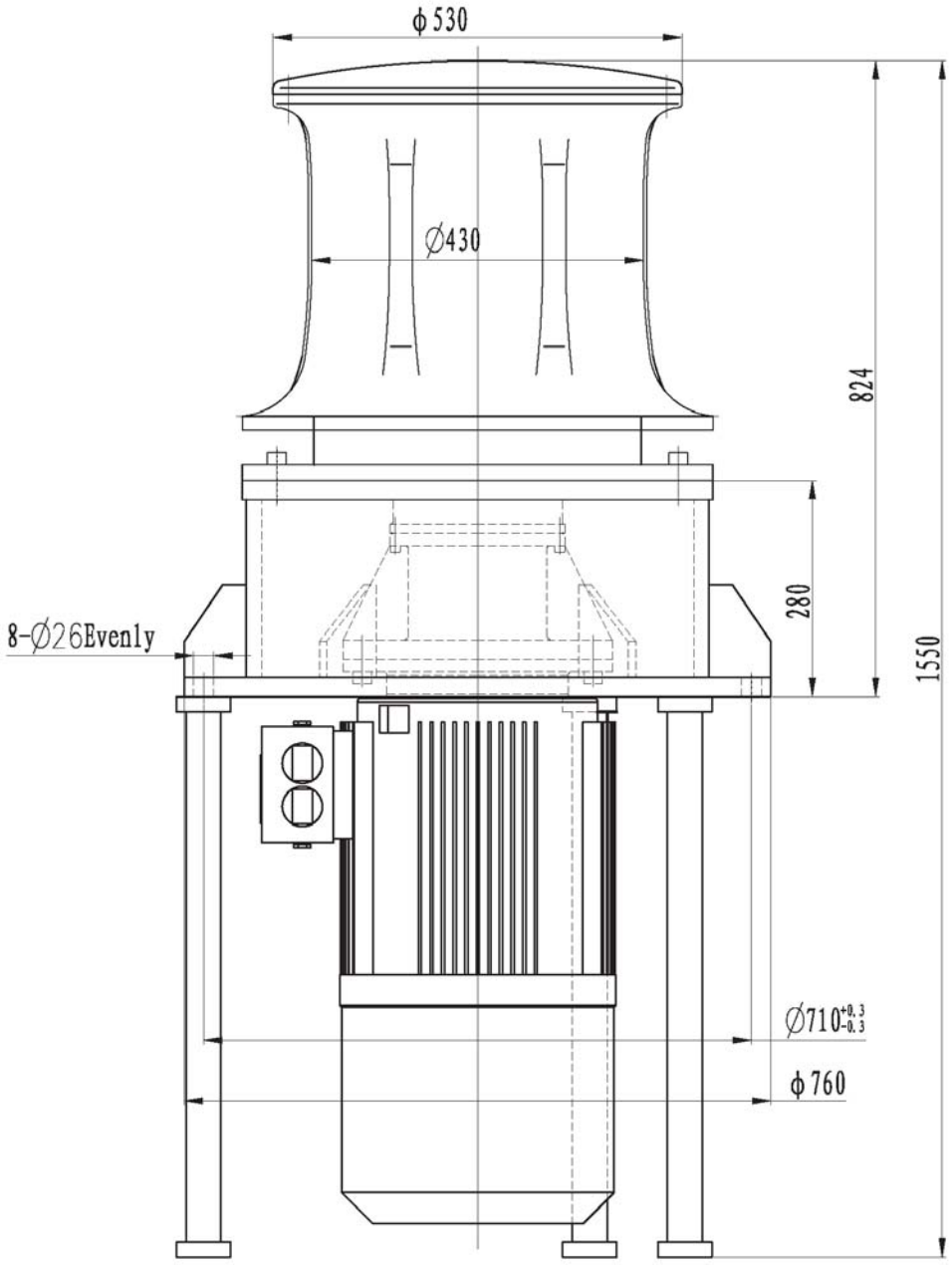


3. Options Example

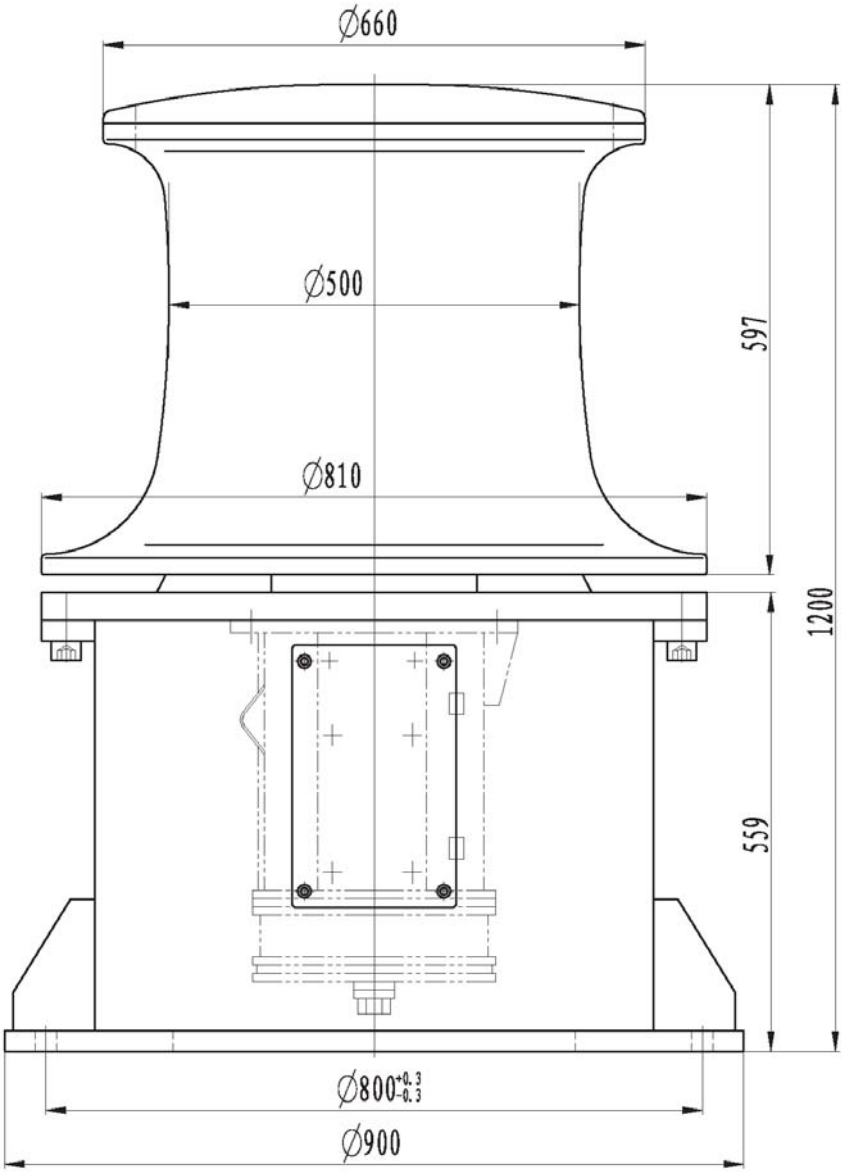
IDJP3-20 means the module of gearbox is 3, and the capstan load is 20kN.



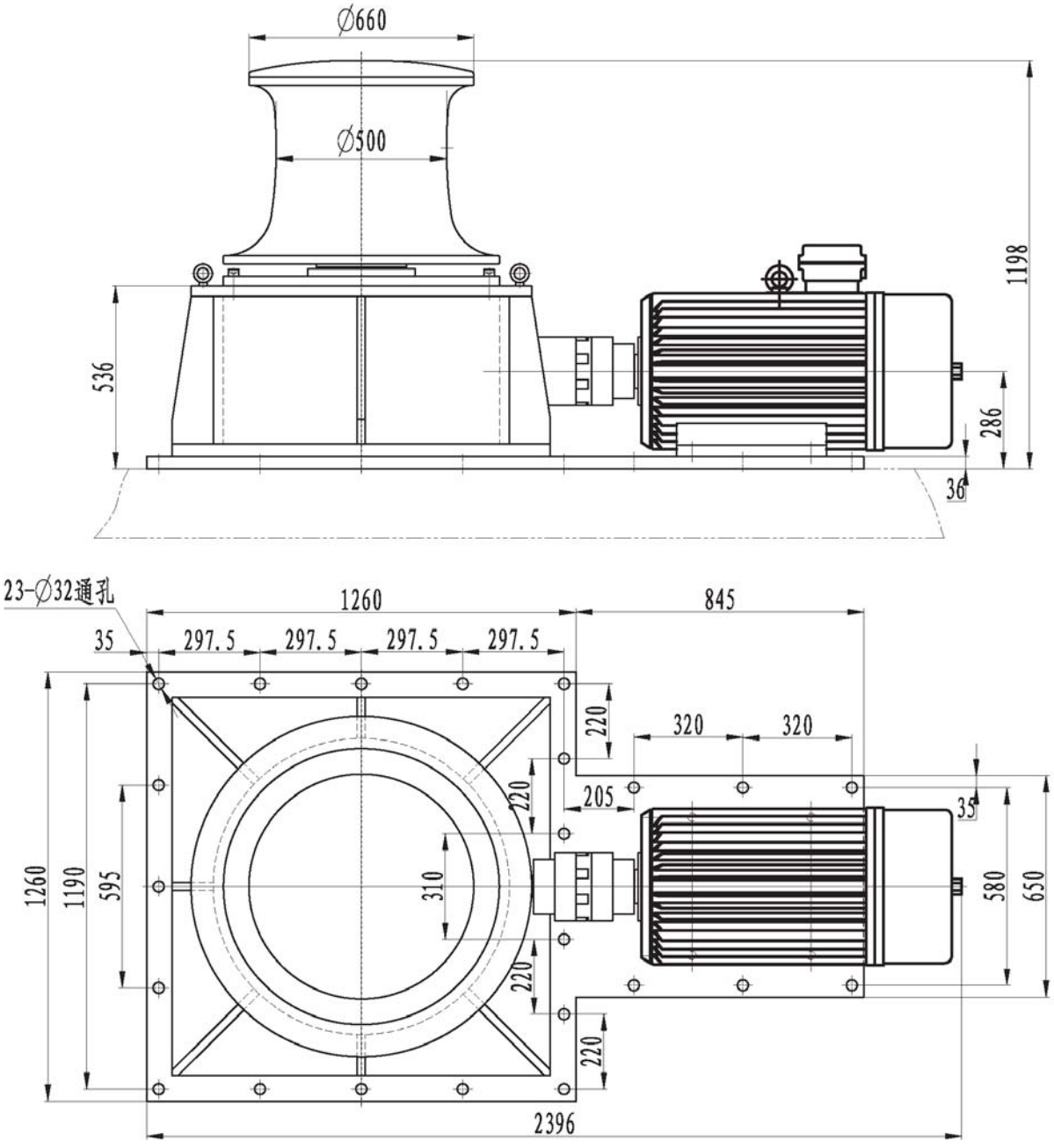
型号 Model	系缆负载 System load (kN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	马达型号 Motor Model	电机功率 Power (Kw)	电制 Parameter of electromotor		齿轮箱型号 Planetary gearbox model
						电压(V) Volt	频率(Hz) Frequency	
IDJP233-30	30	14	16	YZ160S-6-H-V3	8.5	440	60	C233(I=80)



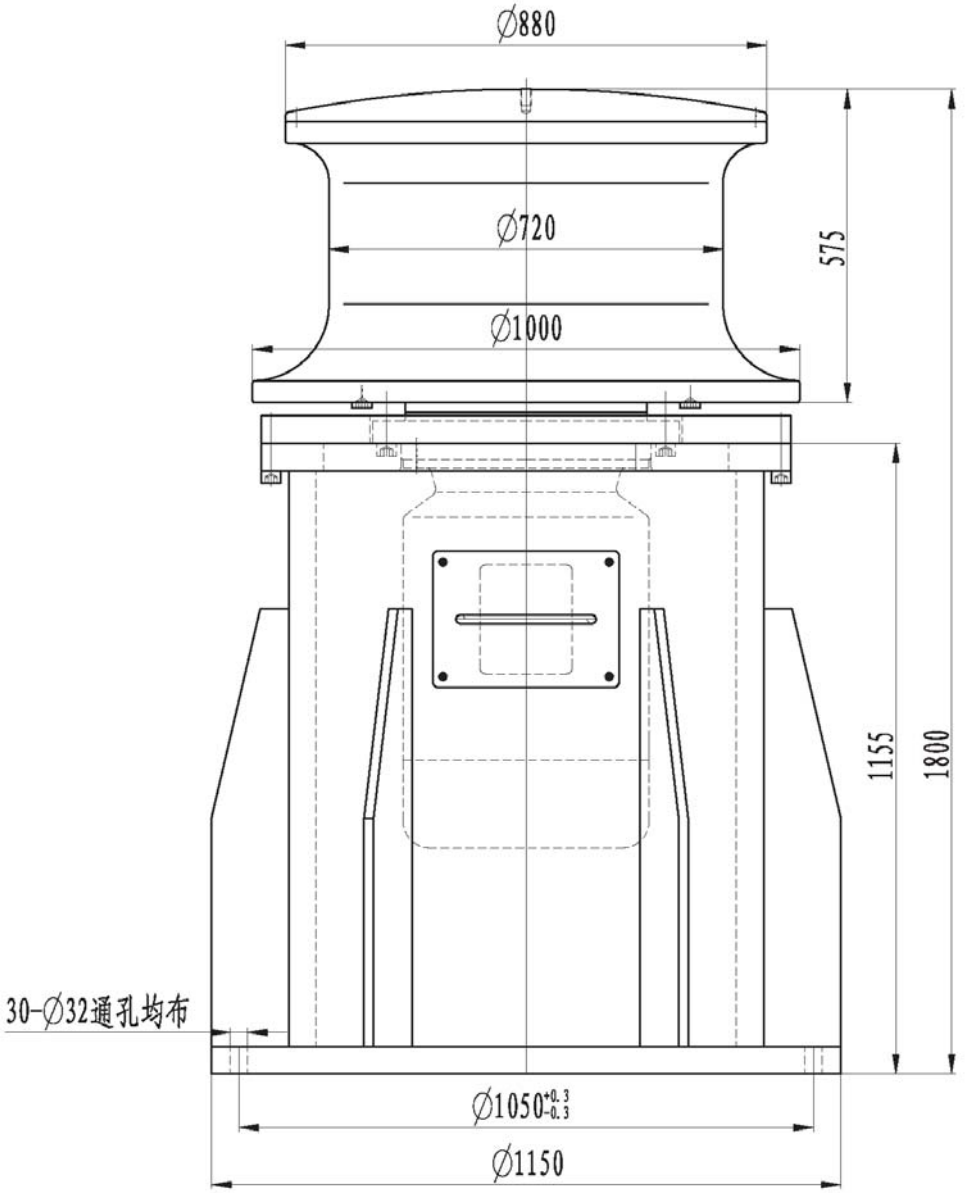
型号 Model	系缆负载 System load (kN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	马达型号 Motor Model	电机功率 Power (Kw)	电 制 Parameter of electromotor		齿轮箱型号 Planetary gearbox model
						电压(V) Volt	频率(Hz) Frequency	
IDJP2.534-50	52/35	14/21	28	YZ200L-4/8-H	15/15	415	50	C2.534(I=100)



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)	马达型号 Motor Model	电机功率 Power (Kw)	电 制 Parameter of electromotor		齿轮箱型号 Planetary gearbox model
						电压(V) Volt	频率(Hz) Frequency	
IDJP334-75	75	9	48	YZ160L-4-H-V3	15	380	50	KC334(I=281.2)



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)	马达型号 Motor Model	电机功率 Power (Kw)	电制 Parameter of electromotor 电压(V) Volt	电制 Parameter of electromotor 频率(Hz) Frequency	齿轮箱型号 Planetary gearbox model
IDJP544-100	100/100	15/8	30	IDG250M-4-8	37/18.5	415	50	C544(I=143.9375)



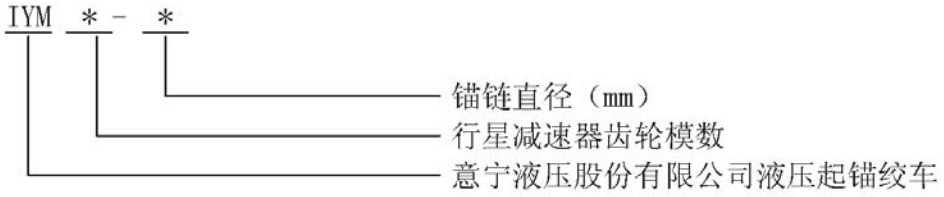
型号 Model	系缆负载 System load (kN)	公称速度 Nominal speed (m/min)	钢丝绳直径 Diameter of rope (mm)	马达型号 Motor Model	电机功率 Power (Kw)	电 制 Parameter of electromotor		齿轮箱型号 Planetary gearbox model
						电压(V) Volt	频率(Hz) Frequency	
IDJP4477-300	300	8.23	60	YZ225M-4-H-V3	45	380	50	KC4477(I=440.8)

● 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



3、型号举例：

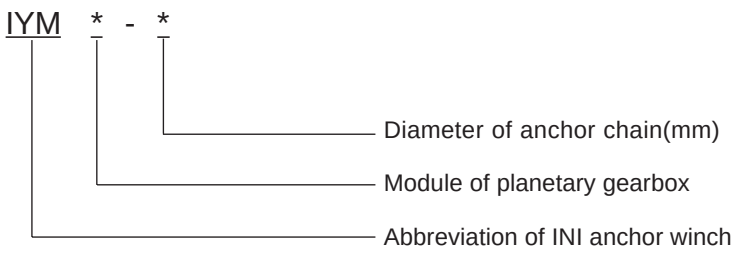
IYM4-Φ32 表示此绞车的行星减速器模数为 4，锚链直径为 32mm。

IYM Hydraulic Anchor Winch Series

1. Brief Introduction

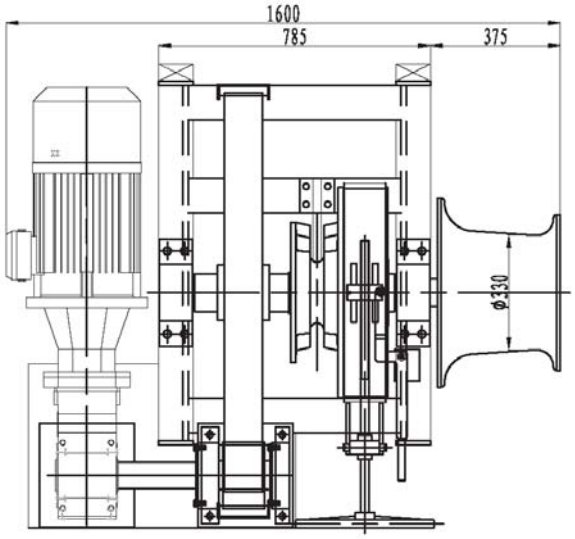
IYM series hydraulic anchor winches consist of valve block with braking and overload protection function,hydraulic motor, planetary gearbox, hydraulic/manual band brake,hydraulic/manual jaw clutch,frame and etc.
The wonch is fitted with valve bolck. It not only simplifies the hydraulic system,but also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

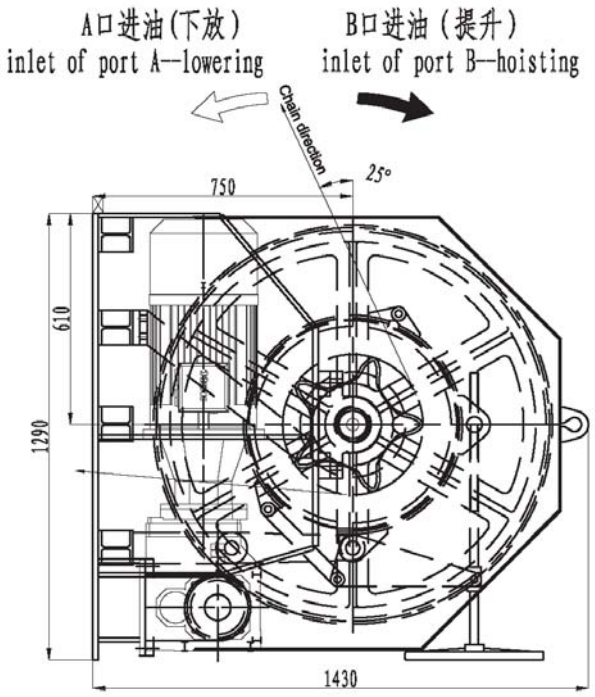
2. Model Options



3. Example

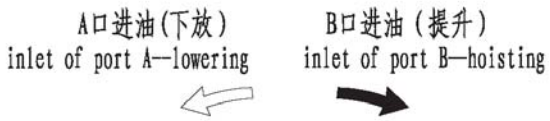
Model no IYM4-Ø32 means the module of the planetary gearbox is 4, and diameter of anchor chain is 32mm.

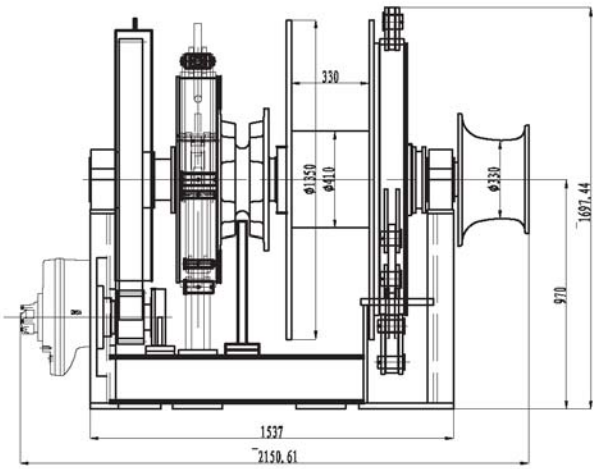


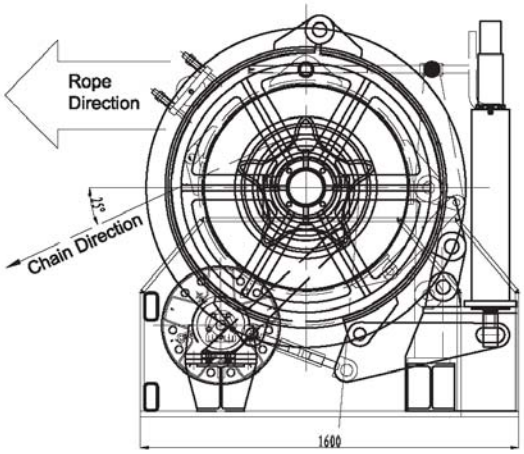


绞盘主要技术参数
chain main Specification

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





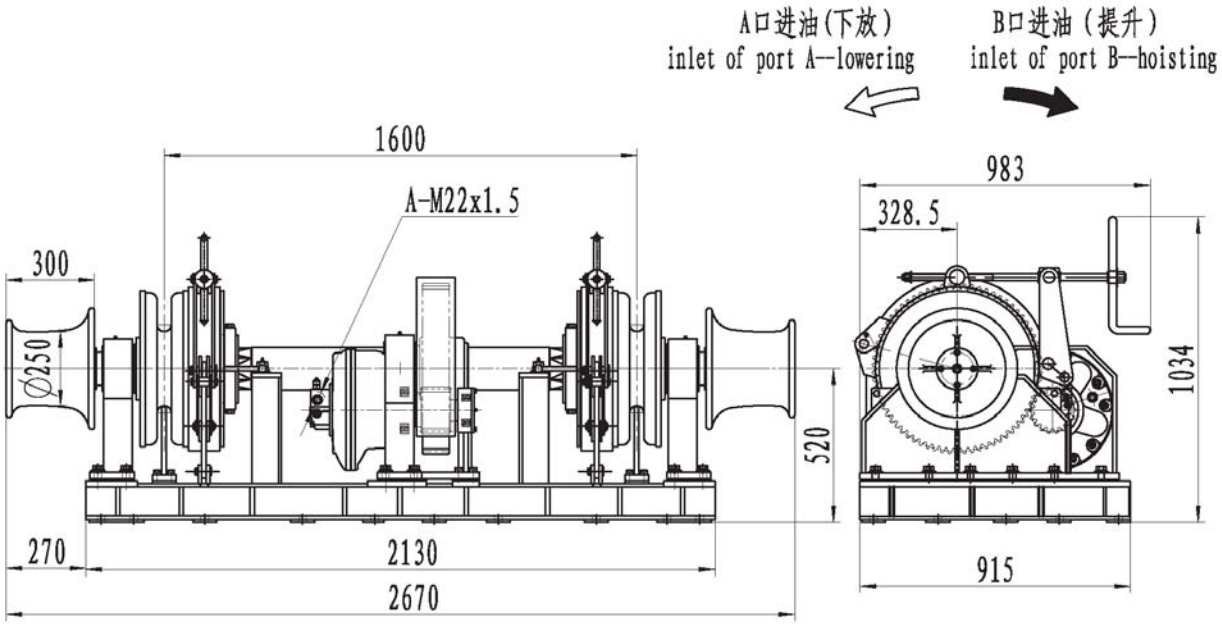


绞盘主要技术参数
chain main Specification

额定负载	Rate Load(kN)	100
功率	Power(Kw)	20
支撑负载	Hold On Load(kN)	340
锚链速度	Chain Speed(m/min)	12
锚链直径	Chain Diameter(mm)	36
额定压力	Rated Pressure(MPa)	20
液压马达型号	Hydraulic Motor Type	GM5-1600

绞车主要技术参数
Winch main Specification

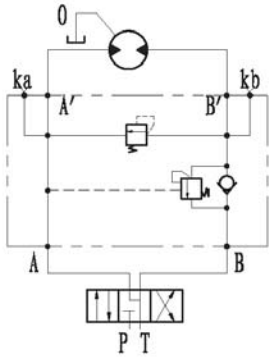
第一层拉力	Rated working pull 1st layer(kN)	100
第一层绳速	Speed 1st layer(m/min)	15
系统压力	System rated pressure(MPa)	20
钢丝绳直径	Diameter of rope(mm)	36
层数	Number of rope layers	100
容绳量	Capability of drum(m)	220
供油流量	Pump flow(L/min)	100(η v=0.9)



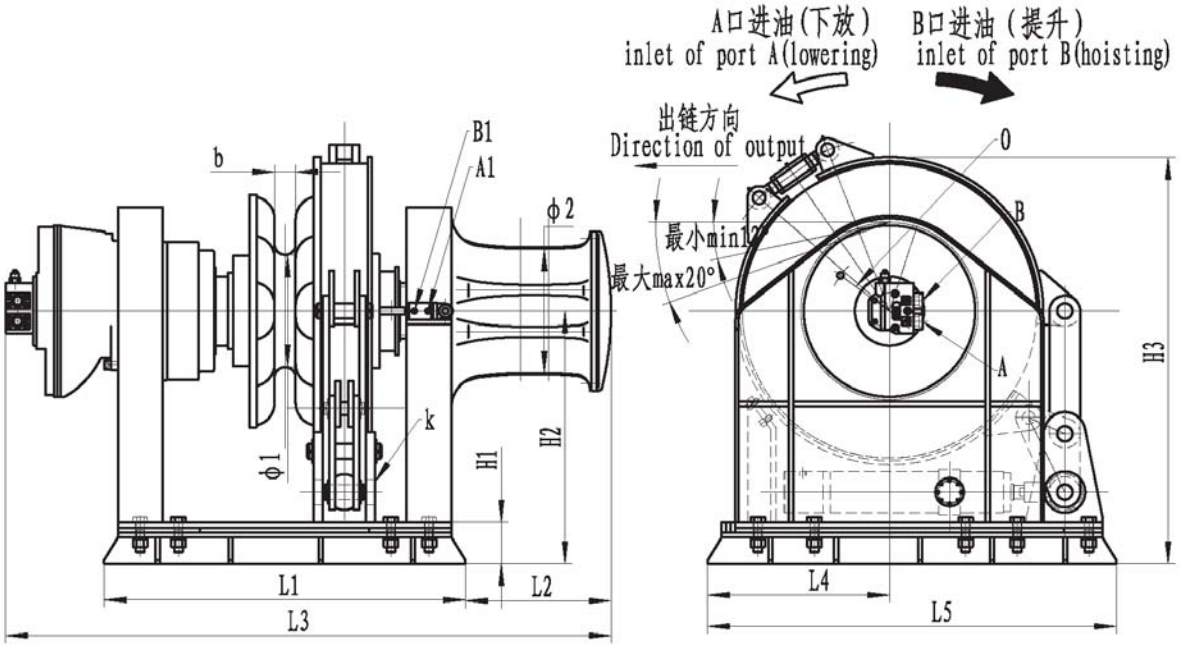
绞盘主要技术参数
chain main Specification

额定负载	Rate Load(kN)	37.24
功率	Power(Kw)	6.2
最大负载	OverLoad(kN)	55.86
支撑负载	Hold On Load(kN)	288.9
锚链速度	Chain Speed(m/min)	10
锚链直径	Chain Diameter(mm)	28(AM2)
额定压力	Rated Pressure(MPa)	16
液压马达型号	Hydraulic Motor Type	INM4-1300D47

液压原理图
Hydraulic principle diagram

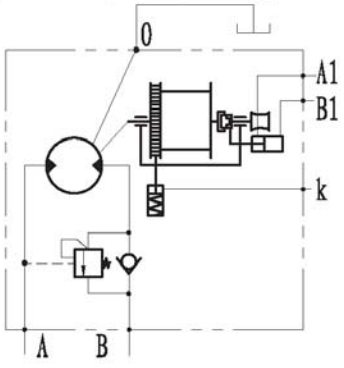


Hydraulic Anchor Winch



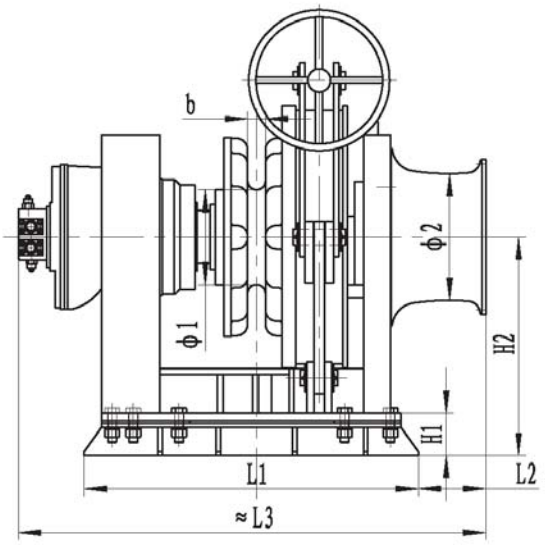
型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM4-φ32	43.5	65.3	≥261	≥9	≤82.5	8170	12.5	53	32
IYM4-φ34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

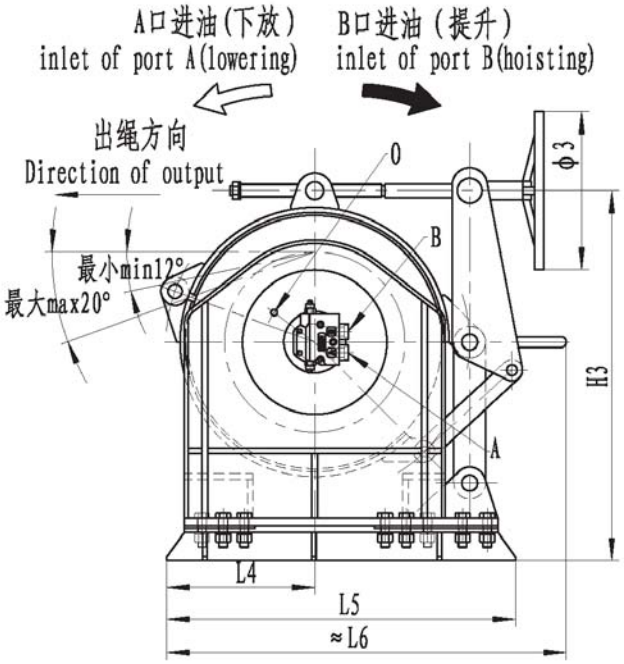
液压原理图
Hydraulic principle diagram



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

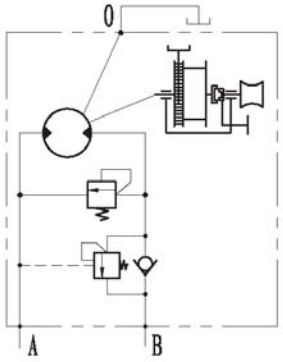
Hydraulic Anchor Winch





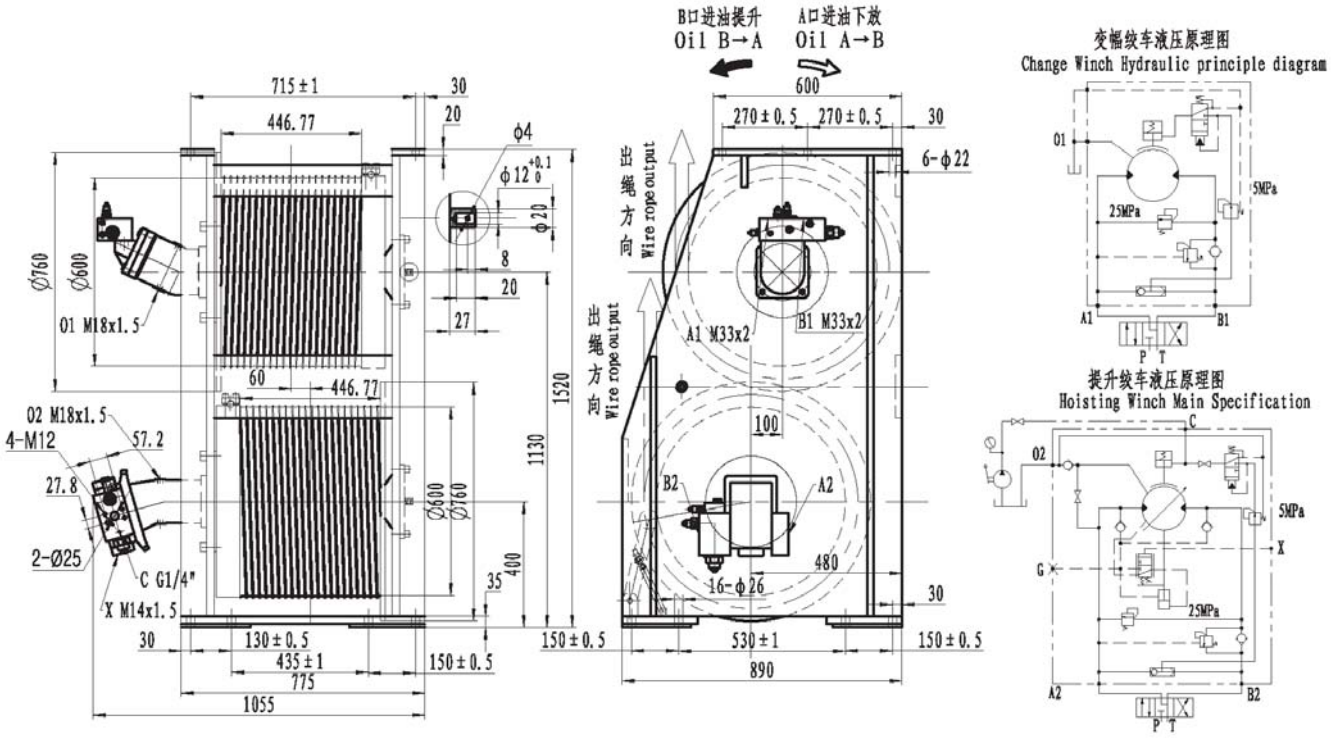
型号 model	工作负载 working load (KN)	过载拉力 overload pull (KN)	支持负载 holding load (KN)	起锚速度 nominal speed of windlass (m/min)	抛锚深度 anchorage (m)	总排量 Total displacement (mL/r)	工作压力 Rated Pressure (mL/r)	供油流量 Supply oil flow (L/min)	锚链直径 chain diameter (mm)
IYM2.5-φ16	10.9	16.4	≥67	≥9	≤82.5	860.5	16	20	16
IYM2.5-φ17.5	13	19.5	≥80	≥9	≤82.5	1050.5	15	14	17.5
IYM3-φ22	20.6	30.9	≥126	≥9	≤82.5	3107.5	15	31	22
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	φ1 (mm)	φ2 (mm)	φ3 (mm)	b (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	O	A.B
IYM2.5-φ16	144	200	250	28	570	196	895	220	515	620	90	335	550	G1/4"	M22x1.5
IYM2.5-φ17.5	157	200	250	31	570	196	895	220	515	620	90	335	550	G1/4"	M22x1.5
IYM3-φ22	198	300	280	39	705	182	1052	280	645	750	115	425	694	G1/2"	M22x1.5
IYM4-φ30	270	360	450	51	950	191	1327	420	990	1050	120	620	1050	G1/2"	φ35

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

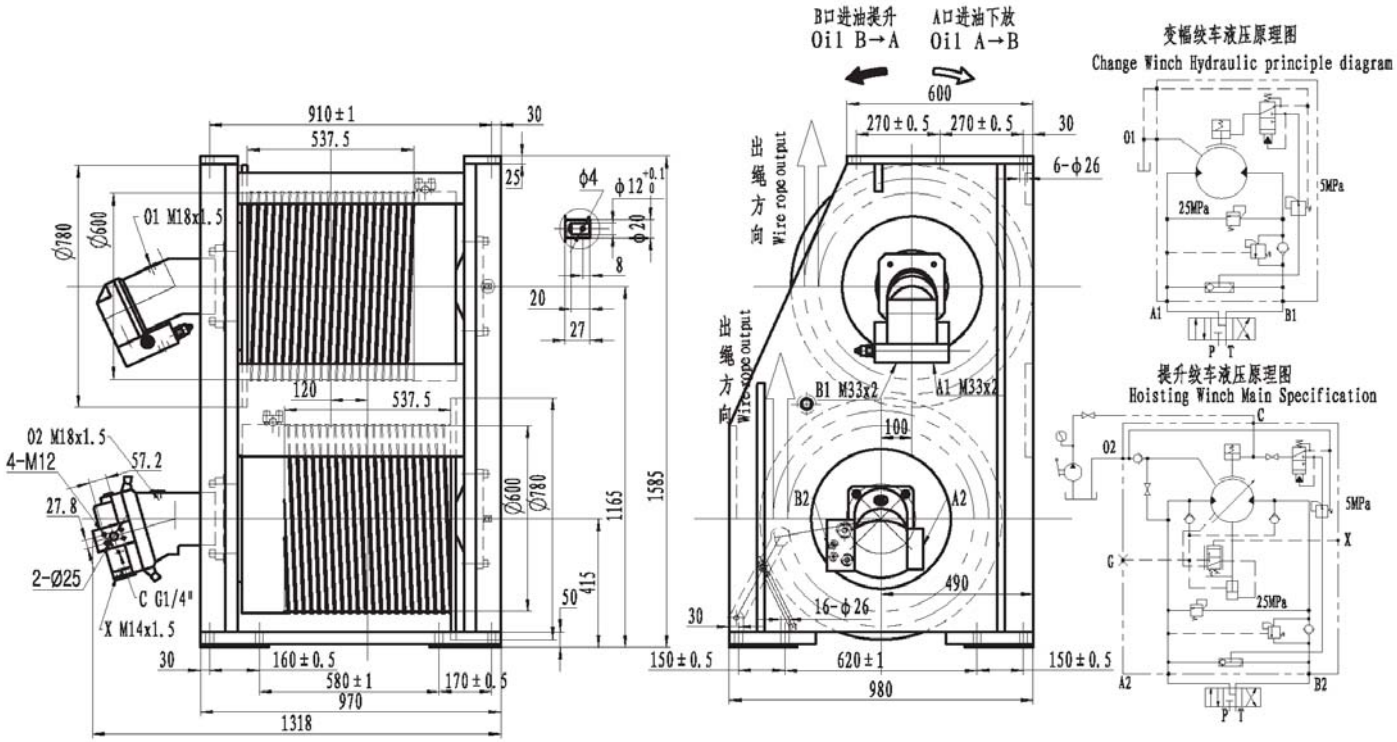
Change Winch Main Specification

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

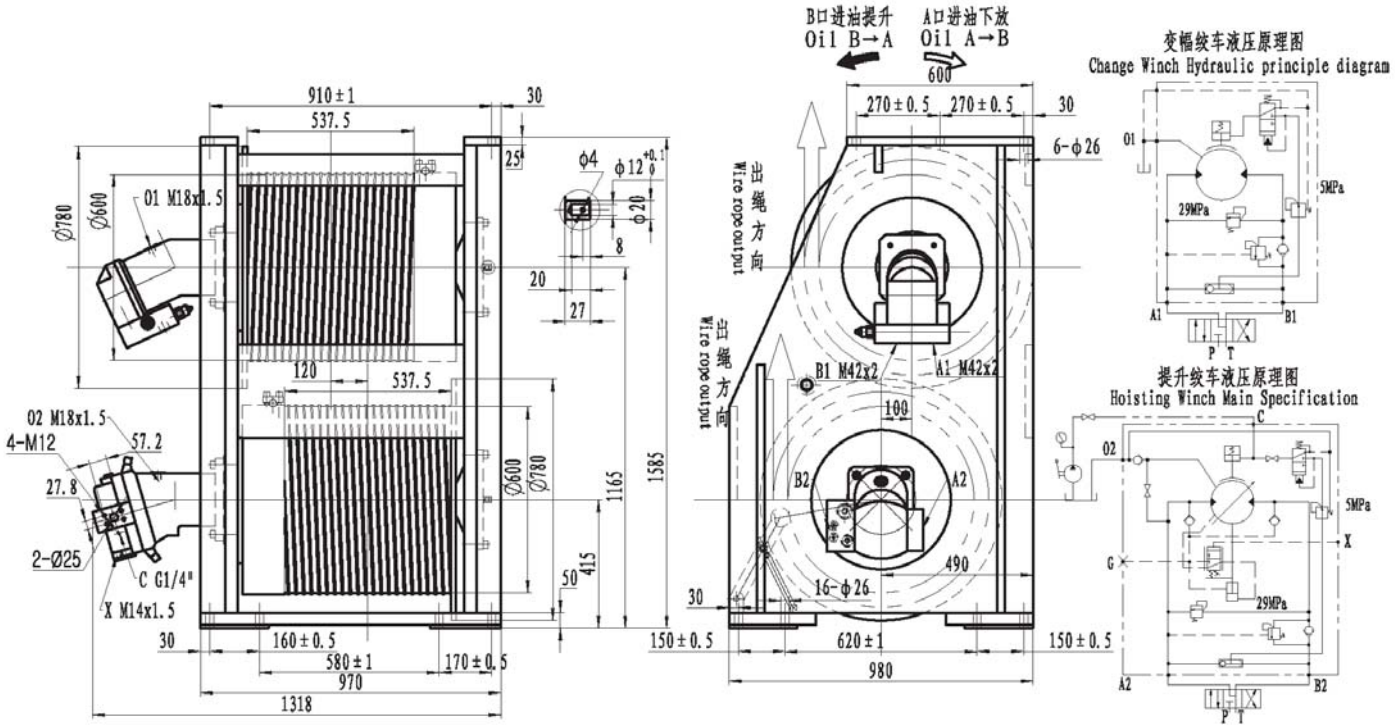
Change Winch Main Specification

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

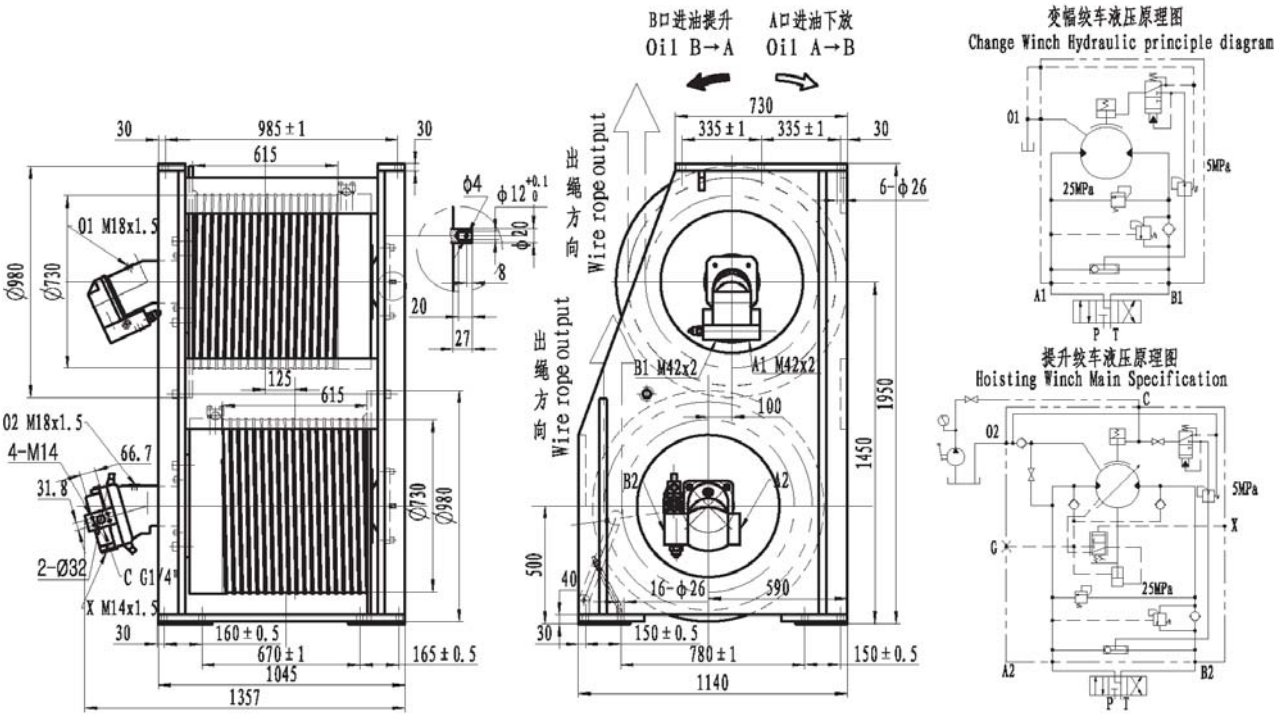
变幅绞车主要技术参数
Change Winch Main Specification

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

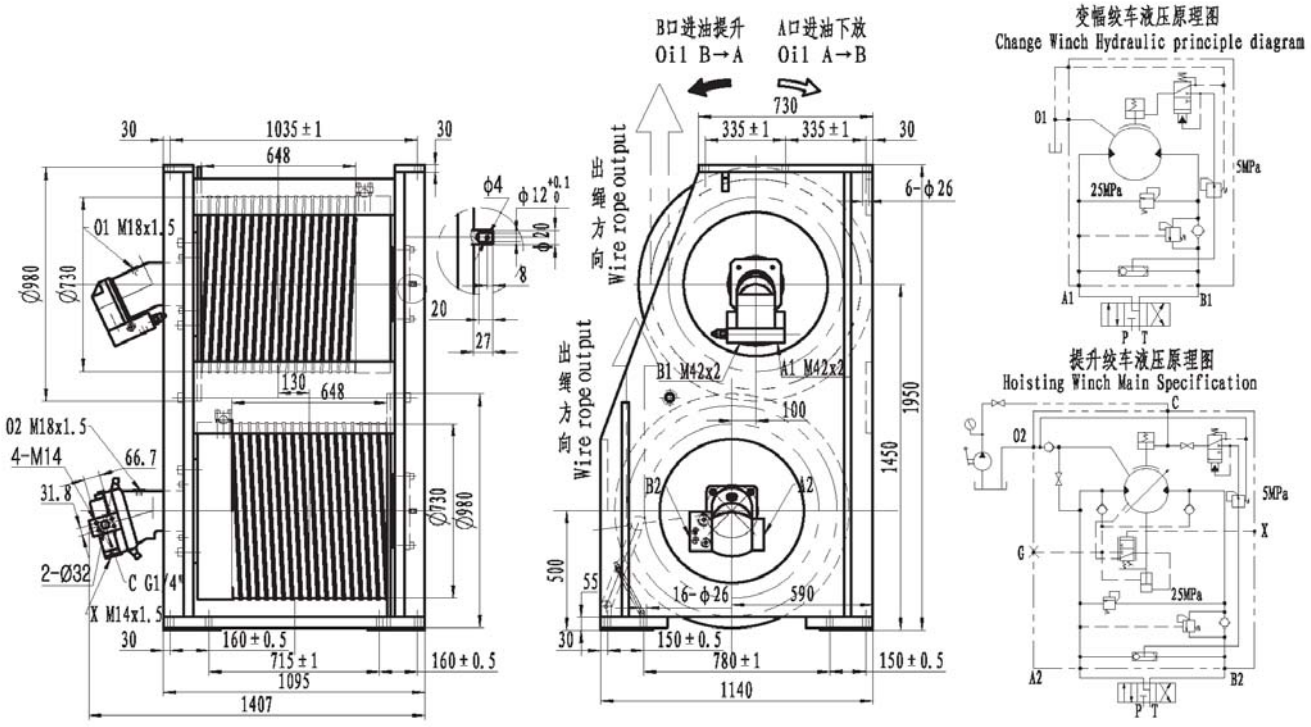
变幅绞车主要技术参数
Change Winch Main Specification

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

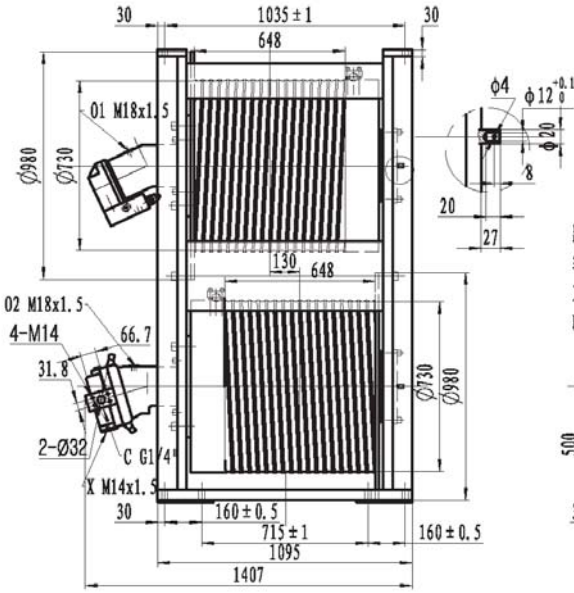
Change Winch Main Specification

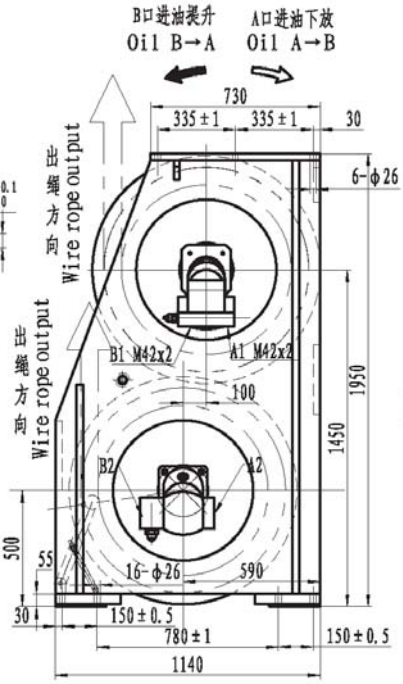
型号	Model	IYJ466-138-90-32-ZPG	
第二层拉力	Pull on the 2nd layer (kN)	160	
第一层绳速	Speed on the 1st layer (m/min)	32	
工作压差	Work pressure diff. (MPa)	28	
供油流量	Oil flow supply (L/min)	278	
钢丝绳直径	Rope diameter (mm)	34	
层数	layer	1	2
容绳量	Wire rope capacity (m)	43	90

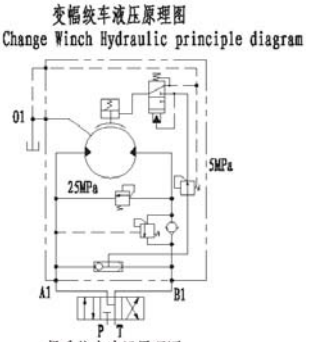
注：1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

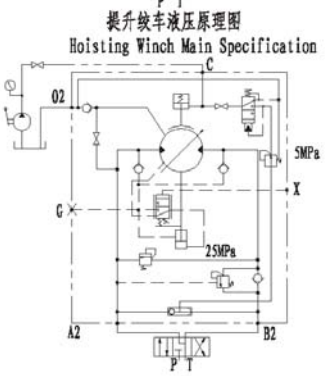
Note: 1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2.The directional control valve should be of a “Y” or “H” type in neutral position to assure the brake and activated.
3.The winch is not designed for operation involving lifting or moving personnel.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

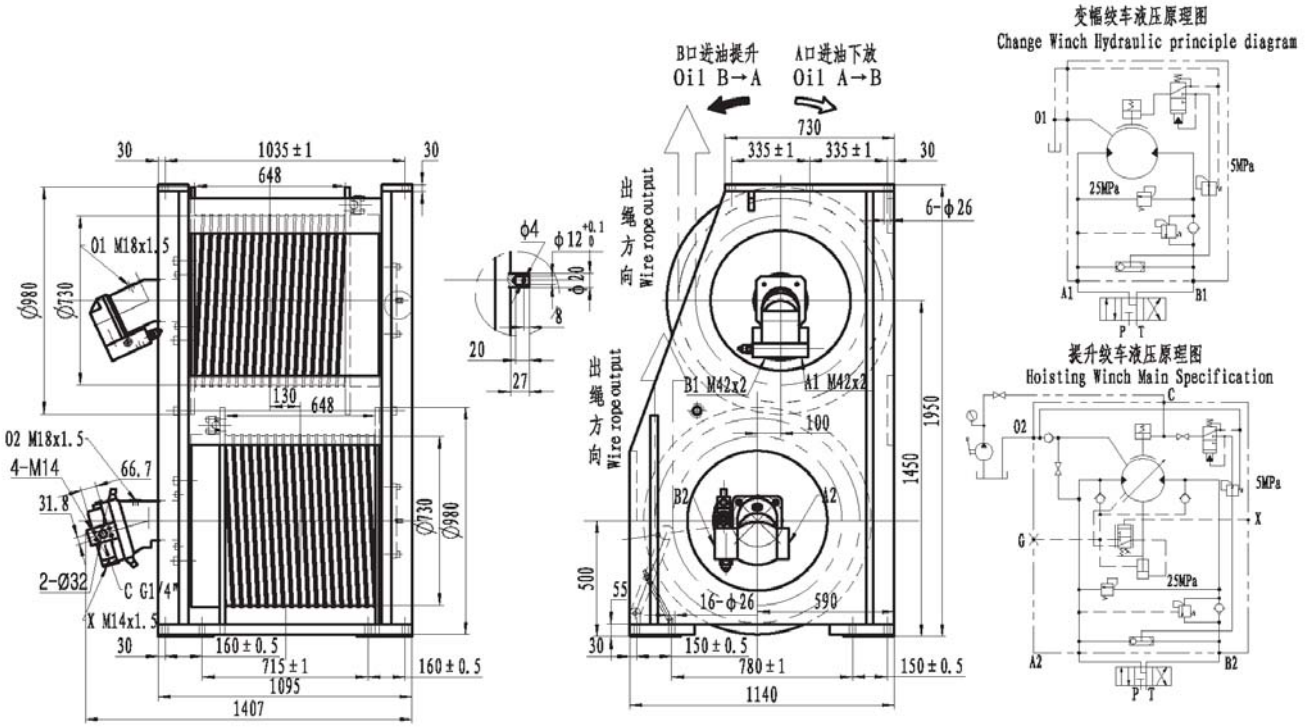
变幅绞车主要技术参数
Change Winch Main Specification

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

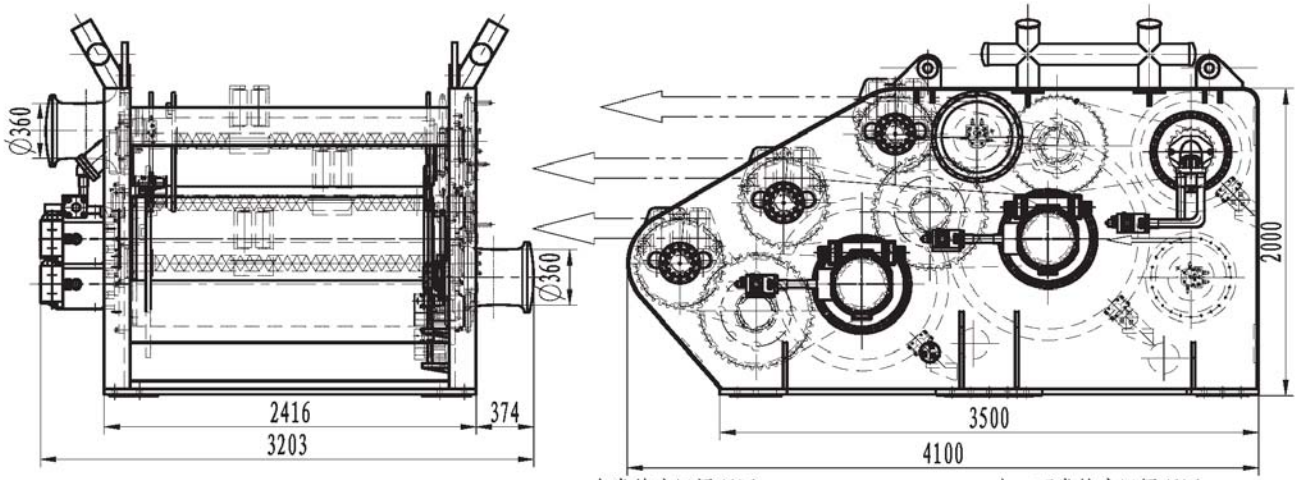
Change Winch Main Specification

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

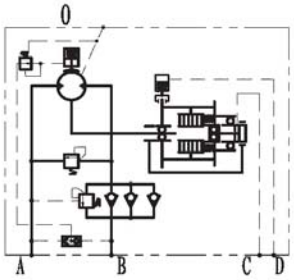
注: 1.马达泄漏口“O”必须接回液压系统油箱，不允许连接至主油路。
2.换向阀中位机能必须为“Y”型或“H”型。
3.液压绞车不允许载人。
4.若有特殊要求请与我们销售部门联系

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.

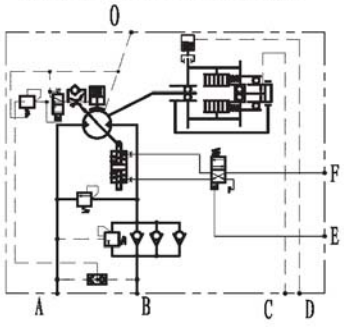
Multi-drum Hydraulic Winch

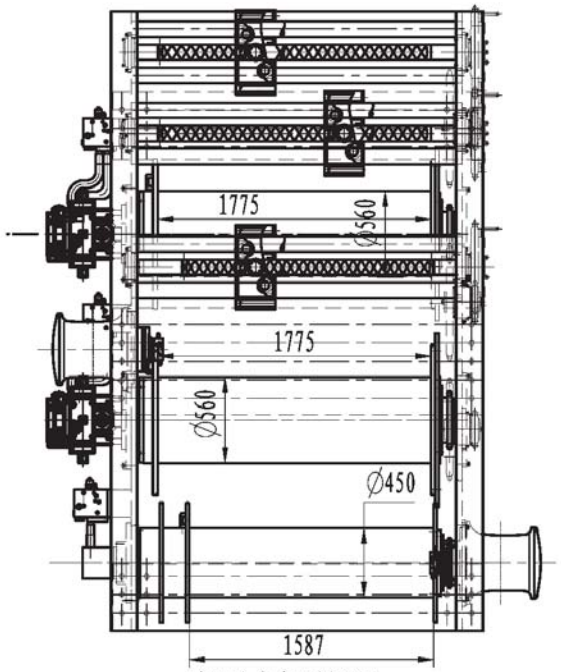


上卷筒液压原理图
Above drum
hydraulic principle diagram

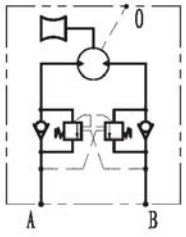


中、下卷筒液压原理图
Middle、under drum
hydraulic principle diagram





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(ηv=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

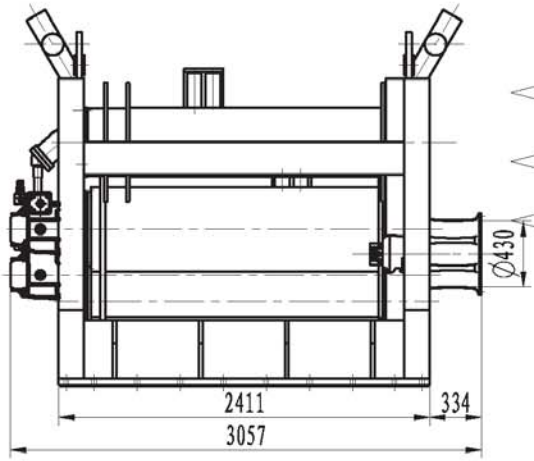
中卷筒主要技术性能参数
Middle Drum Main Specification

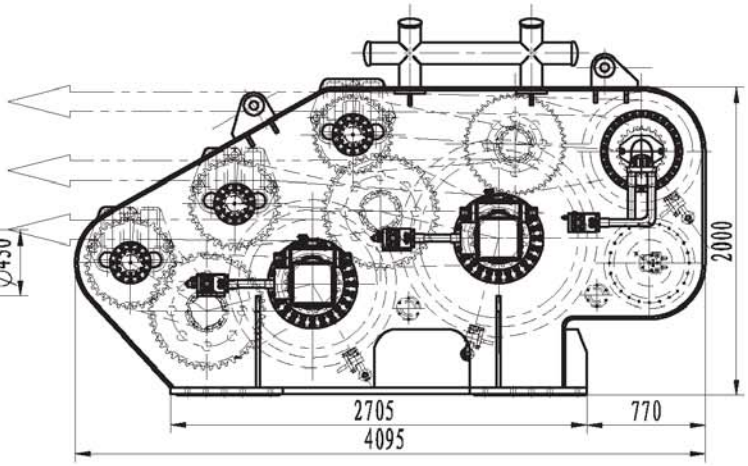
第五层额定拉力 Rated working pull fifth layer(kN)	200	100
第五层钢丝绳速度 Speed fifth layer(m/min)	30	60
卷筒排量 Drum displacement(mL/r)	30466.86	15233.43
系统额定压力 System rated pressure(MPa)	23	
液压马达工作压差 Working pressure diff.(MPa)	21	
适用钢丝绳直径 Diameter of rope(mm)	24	
钢丝绳层数 Number of rope layers	10	
容绳量 Capability of drum(m)	1800	
泵的最大流量 Pump max.flow(L/min)	416(ηv=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

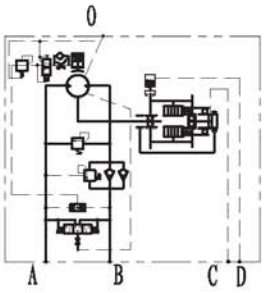
第五层额定拉力 Rated working pull fifth layer(kN)	200	100
第五层钢丝绳速度 Speed fifth layer(m/min)	30	60
卷筒排量 Drum displacement(mL/r)	30466.86	15233.43
系统额定压力 System rated pressure(MPa)	23	
液压马达工作压差 Working pressure diff.(MPa)	21	
适用钢丝绳直径 Diameter of rope(mm)	24	
钢丝绳层数 Number of rope layers	6	
容绳量 Capability of drum(m)	900	
泵的最大流量 Pump max.flow(L/min)	416(ηv=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	

Multi-drum Hydraulic Winch

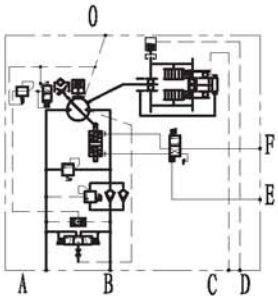


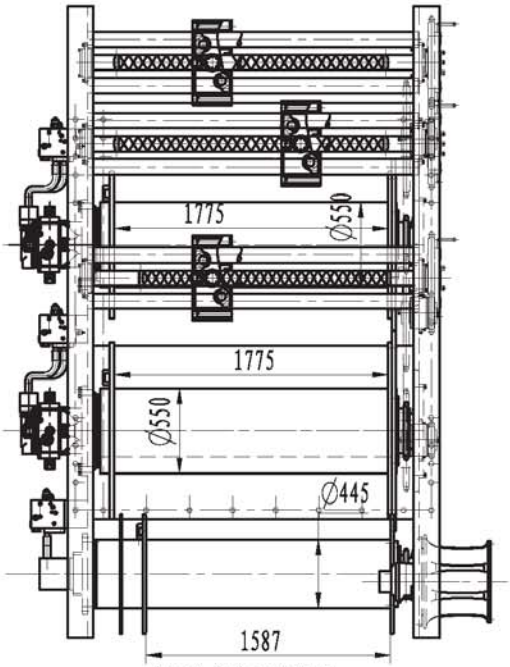


上卷筒液压原理图
Above drum
hydraulic principle diagram

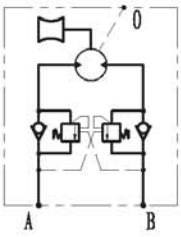


中、下卷筒液压原理图
Middle、under drum
hydraulic principle diagram





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)	60
工作速速 Working speed(m/min)	15
排量 Displacement(mL/r)	5628
系统额定压力 System rated pressure(MPa)	18
液压马达工作压差 Working pressure diff.(MPa)	16
适用钢丝绳直径 Diameter of rope(mm)	20-24
泵流量 Pump flow(L/min)	78
减速机型号 Planetary gearbox type	C34(i=28)
马达型号 Hydraulic motor type	INM1-200D12022

上卷筒主要技术性能参数
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)		10707.69
系统额定压力 System rated pressure(MPa)		26
液压马达工作压差 Working pressure diff.(MPa)		24
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)		353(η v=0.9)
减速机型号 Planetary gearbox type	IGT60W3-B67(i=66.923)	
马达型号 Hydraulic motor type	A2FE160/6.1WVZL10D480111	
总功率 Power	147	

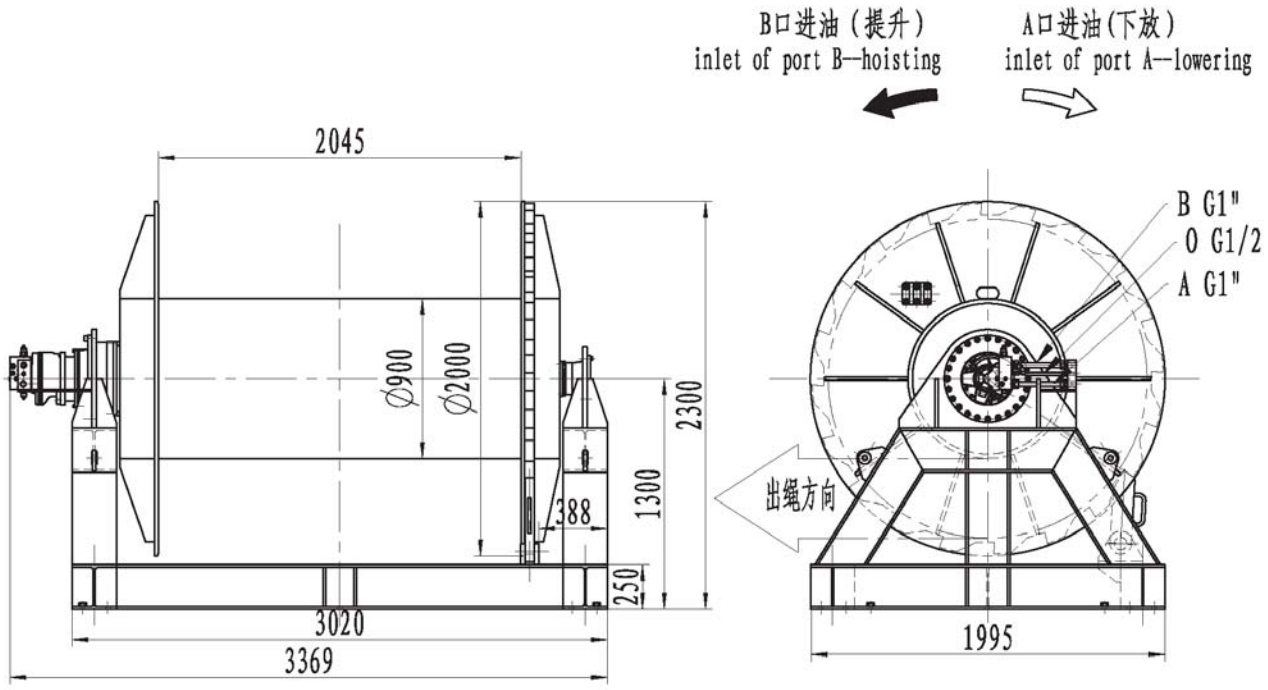
中卷筒主要技术性能参数
Middle Drum Main Specification

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)	23957	11978.8
系统额定压力 System rated pressure(MPa)	26.5	
液压马达工作压差 Working pressure diff.(MPa)	24.5	
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)	332(η v=0.9)	
减速机型号 Planetary gearbox type	IGT110W3-B96(i=95.828)	
马达型号 Hydraulic motor type	HLASM250MA-125	
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)	23957	11978.8
系统额定压力 System rated pressure(MPa)	26.5	
液压马达工作压差 Working pressure diff.(MPa)	24.5	
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)	332(η v=0.9)	
减速机型号 Planetary gearbox type	IGT110W3-B96(i=95.828)	
马达型号 Hydraulic motor type	HLASM250MA-125	
总功率 Power	147	

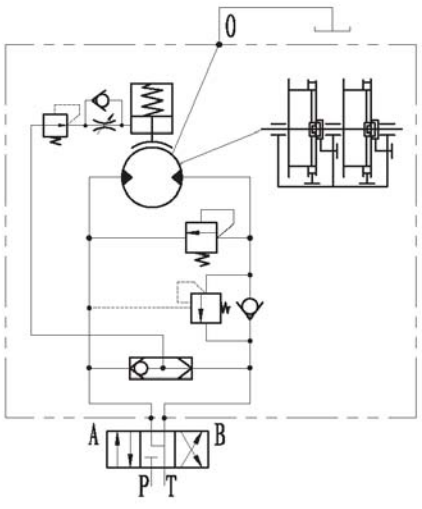
IYJ45-60-1200-56-ZP



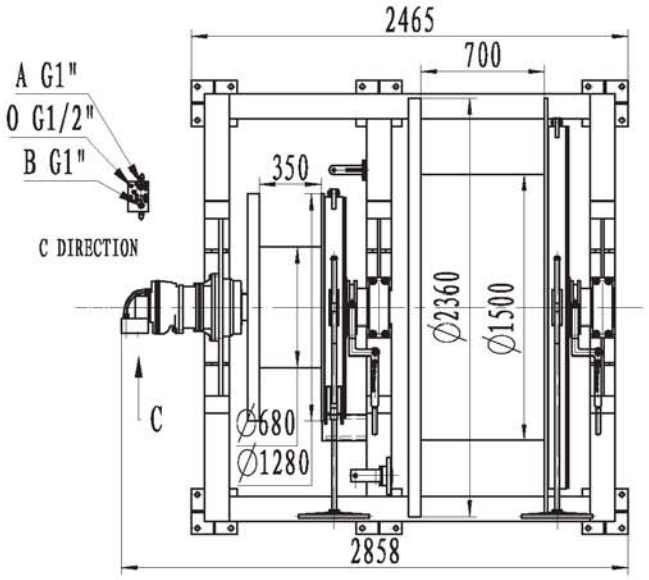
绞车主要技术参数
Winch main Specification

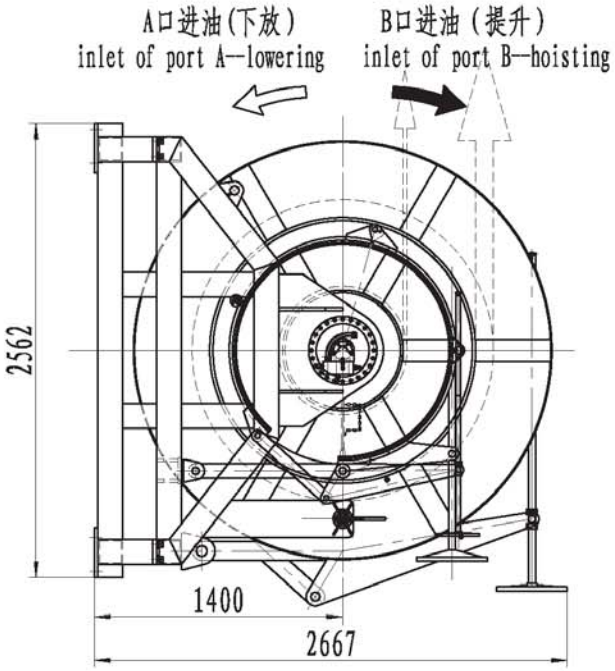
第一层拉力	Rated working pull 1st layer(kN)	60
第一层绳速	Speed 1st layer(m/min)	20
总排量	Drum displacement(mL/r)	11900
系统压力	System rated pressure(MPa)	20
钢丝绳直径	Diameter of rope(mm)	56
层数	Number of rope layers	8
容绳量	Capability of drum(m)	1200
供油流量	Pump flow(L/min)	88 (η v=0.9)
液压马达型号	Hydraulic motor type	GM2-420-1D47

液压原理图
Hydraulic principle diagram



IYJ34-50-100-22.5-ZPLD

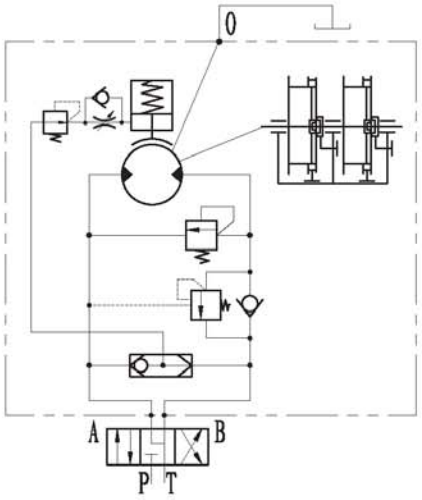




绞车主要技术参数
Winch main Specification

第一层拉力	Rated working pull 1st layer(kN)	50
第一层绳速	Speed 1st layer(m/min)	10
总排量	Drum displacement(mL/r)	8500
系统压力	System rated pressure(MPa)	18
钢丝绳直径	Diameter of rope(mm)	22.5
层数	Number of rope layers	3
容绳量	Capability of drum(m)	100
供油流量	Pump flow(L/min)	43 (η v=0.9)
液压马达型号	Hydraulic motor type	GM2-420-1D47

液压原理图
Hydraulic principle diagram

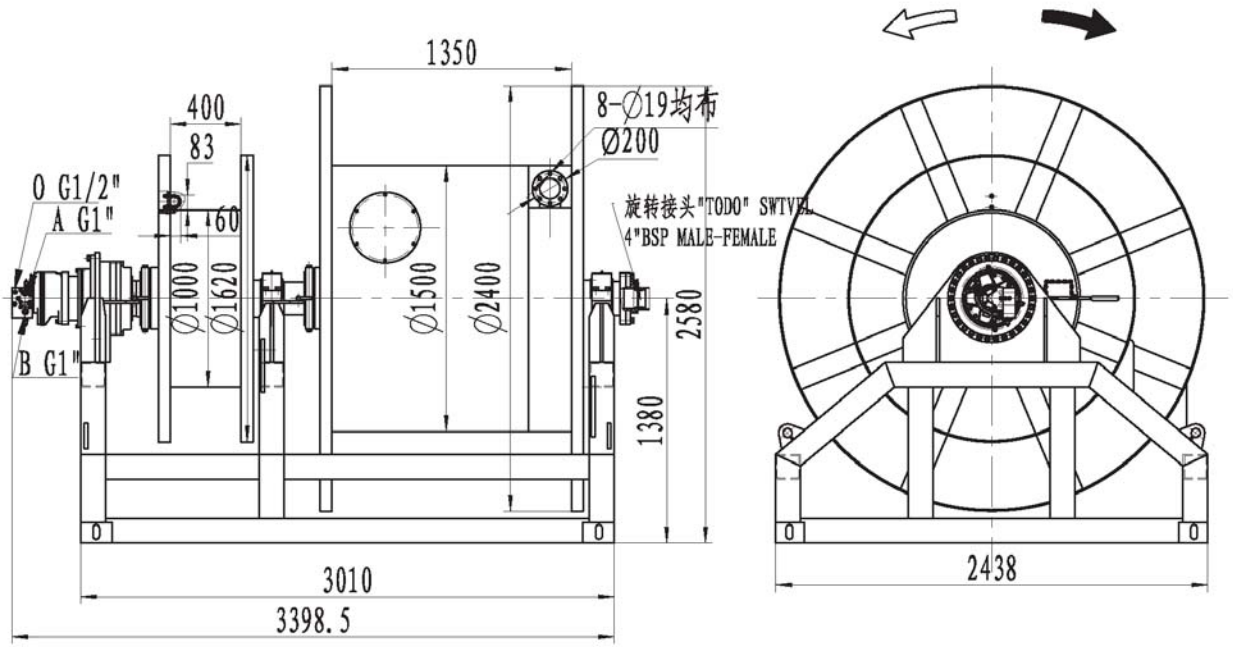


绞车主要技术参数
Winch main Specification

第一层拉力	Rated working pull 1st layer(kN)	20
第一层绳速	Speed 1st layer(m/min)	25
总排量	Drum displacement(mL/r)	8500
系统压力	System rated pressure(MPa)	17
钢丝绳直径	Diameter of rope(mm)	100
层数	Number of rope layers	3
容绳量	Capability of drum(m)	100
供油流量	Pump flow(L/min)	47 (η v=0.9)
液压马达型号	Hydraulic motor type	GM2-420-1D47

IYJ45-36-120-48-ZPL

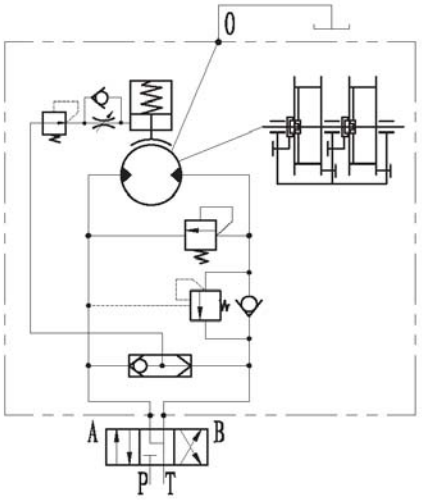
A口进油(下放) inlet of port A--lowering
B口进油(提升) inlet of port B--hoisting



绞车主要技术参数
Winch main Specification

第一层拉力	Rated working pull 1st layer(kN)	36
第一层绳速	Speed 1st layer(m/min)	20
总排量	Drum displacement(mL/r)	8500
系统压力	System rated pressure(MPa)	20
钢丝绳直径	Diameter of rope(mm)	48
层数	Number of rope layers	4
容绳量	Capability of drum(m)	120
供油流量	Pump flow(L/min)	60 (η v=0.9)
液压马达型号	Hydraulic motor type	GM2-420-1D47

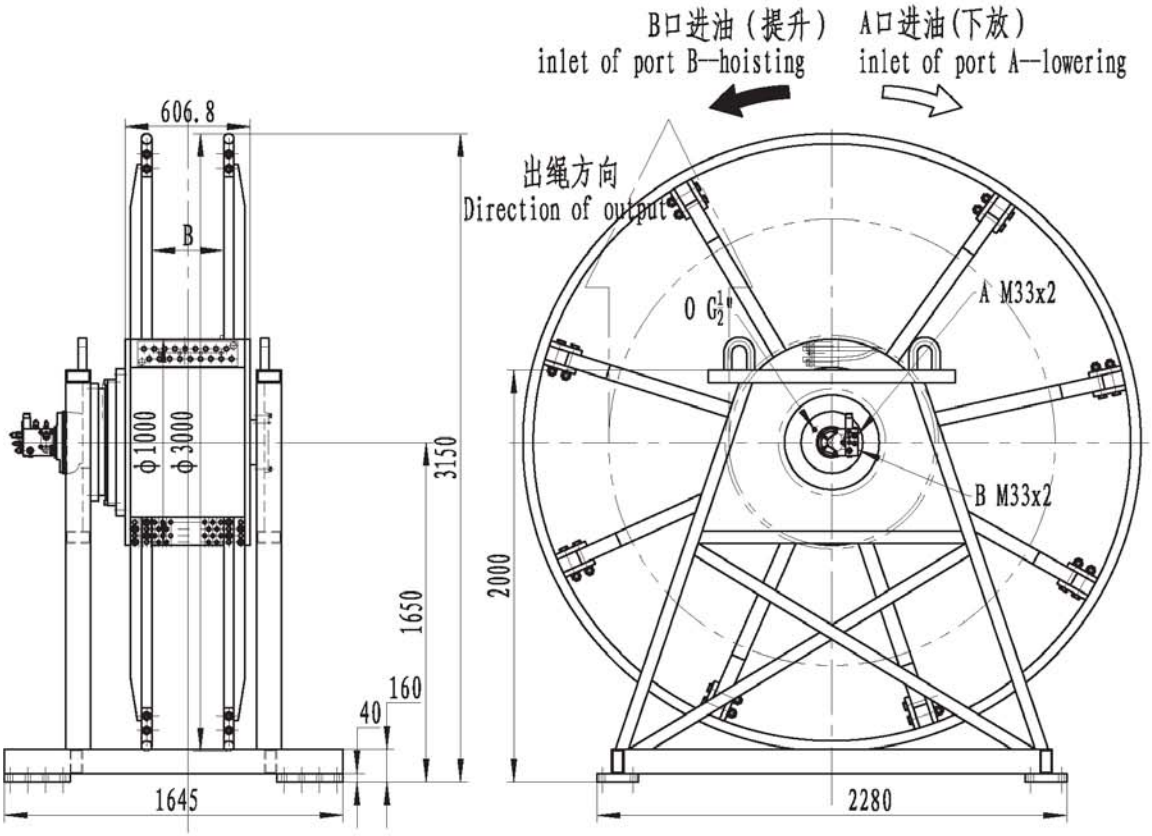
液压原理图
Hydraulic principle diagram



绞车主要技术参数
Winch main Specification

钢丝绳直径	Diameter of rope(mm)	4
层数	Number of rope layers	3
容绳量	Capability of drum(m)	180

Steel Strand Winch



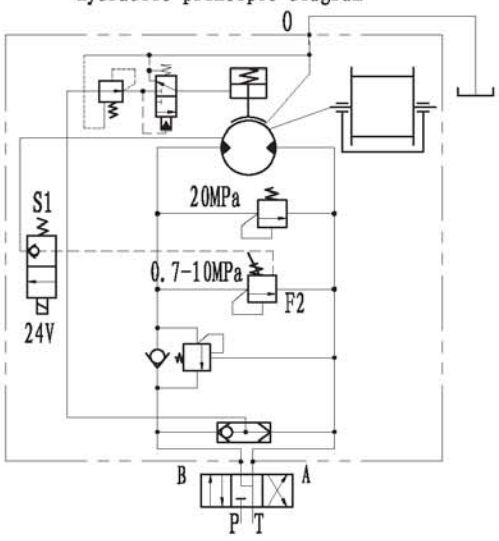
注：B的尺寸可以根据钢绞线股数改变，具体数值为349(18股)、310(16股)、 291(15股)、271(14股)、252(13股)、233(12股)、213(11股)、194(10股)、174(9股)、155(8股)、136(7股)、116(6股)。

Note: the dimension of B can change with number of steel strands, the special value is 349(18 strands)、310(16 strands)、291(15 strands)、271(14 strands)、252(13 strands)、233(12 strands)、213(11 strands)、194(10 strands)、174(9 strands)、155(8 strands)、136(7 strands)、116(6 strands)。

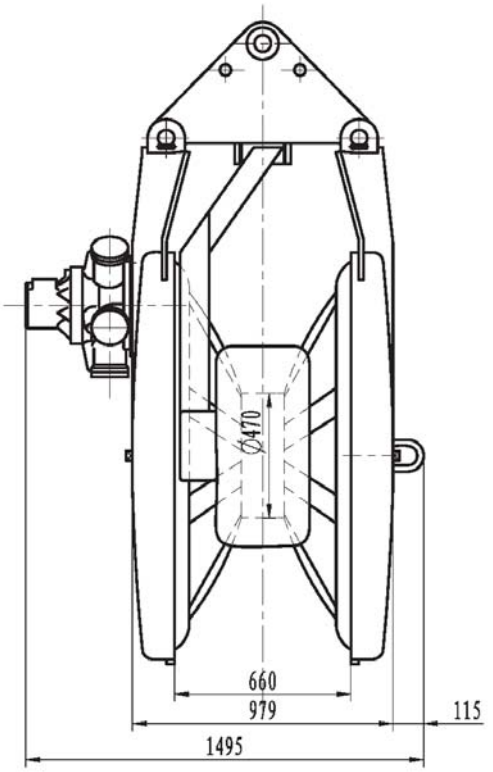
提升时最外层拉力	Hoisting force on top layer (kN)	20～30
提升时平均速度	Average speed on hoisting(m/min)	>0.5
下放时可承受最大扭矩	Max. torque on lowering(N.m)	200000
下降时平均速度	average speed on lowering(m/min)	1.3～2
卷筒排量	Total displacement(mL/r)	87097
系统额定压力	System rated pressure(MPa)	20
液压马达工作压差	Work pressure diff.(MPa)	18.5
适用钢丝绳直径	Diameter of rope(mm)	φ18x18
绕绳层数	Layer	51
容绳量	Capacity of rope(m)	250
推荐泵供油流量	Supply oil flow(L/min)	39～60(ηv=0.9)
液压马达型号	Hydraulic motor	INM2-3500D47+F
行星减速器型号	Gearbox model	IGC220W3-B251-INM2

液压原理图

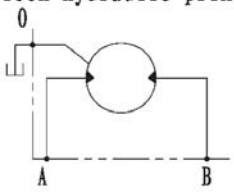
Hydraulic principle diagram

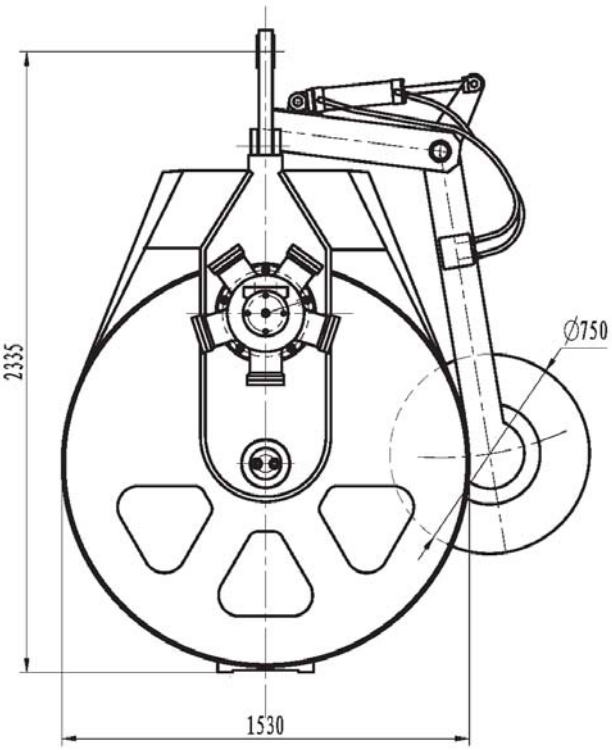


56 inch Power Block

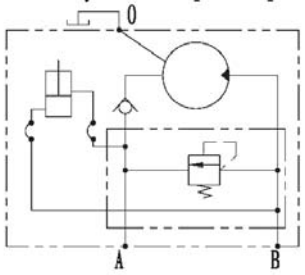


动力滑车液压原理图
Power block hydraulic principle diagram





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



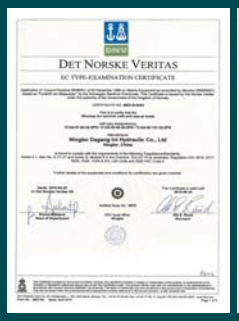
动力滑车主要技术性能参数
Power block main specification

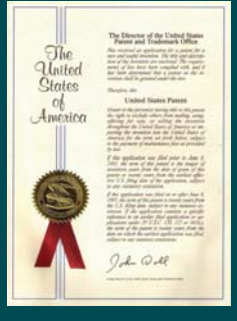
工作拉力 Working pull(kN)	70
绳速 Speed(m/min)	80
卷筒排量 Drum displacement(mL/r)	11700
系统额定压力 System rated pressure(MPa)	18
工作压差 Working pressure diff.(MPa)	16
泵理论流量 Pump flow(L/min)	381(η v=0.9)
液压马达型号 Hydraulic motor type	MRH-1500
传动比 ratio	i=7.65

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

Company Certificate［ 企业证书 ］





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