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## 一、产品性能测试能力 (test capability)

气动绞车综合性能试验台架

Pneumatic winch comprehensive performance test bench



气动马达综合性能测试系统

Pneumatic motor performance test system



气动绞车及气动马达综合性能测控室

Pneumatic hoist and pneumatic motor performance measurement and control center



## 二、公司产品展示(products showing)

产品都可以用在油田（陆地、海洋）、天然气、煤炭、金属等矿业的勘探与开发以及海洋勘探、造船等行业！

Products can be used in oil fields (land, sea), natural gas, coal, metals and other mining exploration and development and marine exploration, shipbuilding and other industries!

### 1、ZJQH-5×24B(Q)型载人气动绞车技术参数

(ZJQH-5×24B manriding winch technica parament)



其主要特点如下：

- (1) 机构紧凑、安装方便；

- (2) 实现正、反无级调速，操作简单；
- (3) 适用于有易燃、易爆气体的场所；
- (4) 起动力矩大，可带负荷起动；
- (5) 操作、维护方便，运转平稳；

载人气动绞车是一种以气动马达作为动力,通过内置式行星减速机构驱动滚筒,实现提升或牵引的装置.它主要用于陆地或海上石油作业,可用于载人提升和载物提升两种用途.

双设计系数,8:1设计系数用于载人;5:1设计系数用于载物.滚筒直径与缆索直径比率最低为18:1,可以防止缆索磨损.

1. 该绞车采用滚筒双支撑结构,绳端固定形式安全、可靠;
2. 该绞车减速系统采用(滚筒)内置式行星减速机构;
3. 该绞车的制动系统采用内置全盘式断气制动和外部手刹制动两种制动形式;密封型自动全盘式制动器,可抗盐雾、灰尘或湿气的侵蚀,手动滚筒安装型带式制动器,操作人员可以实施制动;
4. 该绞车可实现本地操作和远程控制操作两种控制形式.两种控制形式均必须同时具备松绳保护、过载保护、限位保护、急停保护、断气制动以及安全释放等多重安全防护措施:

(1) 松绳保护:当所吊人或物接触支撑面,吊索在继续下降一段较小距离后,系统会自动停止吊索下放,以免伤及人或物;

(2) 过载保护:当负荷超过额定负荷或调定负荷时,绞车将不能超负荷运转;

(3) 限位保护:控制系统设有上下限位装置,当绞车提升或下方超过设定的上下位置时,绞车将停止运转,以免造成伤害;

(4) 急停保护:当操作出现失控或遇到其他紧急情况时,可快速按下“停止按钮”中断供气,以免出现事故。“停止按钮”按下后,具有自锁功能,即使意外弹起也不能恢复供气,只有按动“启动按钮”后,才能恢复正常供气;

(5) 断气制动(内置湿式断气制动):当供气系统因管路爆裂或其它原因出现供气中断时,绞车将自动实施制动,以免造成人员伤亡或其他损失;

(6) 安全释放功能:即当绞车意外停止工作时,应能将所载人或物下放至安全位置。

Its main features are as follows:

- (1) Compact structure, easy installation;
- (2) To achieve positive and reverse stepless speed regulation, simple operation;
- (3) Suitable for flammable and explosive gas;
- (4) Starting torque is large, can load start;

(5)、 Operation, easy maintenance, smooth operation;

Man rider pneumatic winch is a pneumatic motor as the driving force, through the planetary reducer drive roller, realize lifting device or traction. It is mainly used for land or offshore petroleum operations, can be used for lifting and carrying two manned lifting purposes.

Double design coefficient, 8:1 design coefficient is used for manned; 5:1 design coefficient is used for the load. The ratio of the diameter of the cylinder to the diameter of the cable is 18:1, which can prevent the cable from wearing。

- 1、 the winch adopts double support structure, and the rope end is safe and reliable;
- 2、 The winch deceleration system uses (roller) built-in planetary reduction mechanism;
- 3、 The winch brake system with built-in type parking brake and the overall external brake two brake; seal type automatic full brake, anti salt spray, erosion of dust or moisture, manual installation type drum band brake, the operator can implement braking;
- 4、 The winch can realize local operation and remote control operation of two forms of control. Two control forms must also have loose rope protection, overload protection, limit protection, emergency stop protection, security and parking brake release multiple safety protection measures:
  - (1) Loose rope protection: when a person or thing hanging contact support and sling continued to decline in a smaller range, the system will automatically stop the sling decentralization, so as not to hurt people or things;
  - (2) Overload protection: when the load exceeds the rated load or setting load, the winch can not overload operation;
  - (3) Limit protection: the control system is equipped with the upper and lower limit device, when the winch hoist or lower than the set up and down position, the winch will stop running, so as not to cause damage;
  - (4) Emergency stop protection: when the operation is out of control or other emergency situations encountered, can quickly press the "stop" button to interrupt the supply, in order to avoid accidents. "Stop" button is pressed, with self-locking function, even if the accident is not up to restore gas supply, only by pressing the "start button", in order to restore normal supply;



- (5) Parking brake (built-in wet air cut-off brake): when the gas supply system for pipeline explosion or other reasons, the gas supply interruption, the winch will automatically apply the brakes, so as to avoid personal injury or other losses;
- (6) Safety release function: when the winch accidentally stops working, should be able to put the person or thing to a safe location

额定提升力 Rated lifting force		5KN;
提升速度 Lifting speed		0~24m/min;
钢丝绳直径 (mm) Steel rope diameter (mm)		φ 10-11mm
容绳量 Wire capacity (D=10mm)		150m
外形尺寸(长×宽×高) mm Overall dimensions(Length *Width *Height) mm		930×810×910
气动马达 Pneumatic Motor	功率 Rated power (kW)	2.6kW
	工作进气压力 Pressure of compress air (MPa)	0.25-0.8MPa
	最大耗气量 ax. air consumption	5m <sup>3</sup> /min
制动形式 Break type	内置全盘式断气制动+手动带式辅助制动 Built-in entire disc CAAB + Band hand break	
安全措施 Security measures	<ol style="list-style-type: none"> <li>1. 急停止装置 Ergency stop device;</li> <li>2. 断气制动装置 Barely able to brake.</li> <li>3. 限位装置 Limit Switches;</li> <li>4. 紧急释放 Mergency Lowering;</li> <li>5. 过载保护装置 Over load protection device;</li> <li>6. 松绳保护装置 Slack Line Detector;</li> </ol>	

## 2、XJFH 系列风动绞车 (XJFH Pneumatic Winch)

XJFH 系列气动绞车是以气动马达为动力，通过齿轮减速机构驱动卷筒，实现重物牵引和提升的绞车装置。它具有结构紧凑、操作方便、工作安全可靠、维修简单、运转平稳、无级变速等优点。作为防爆牵引，提升动力装置，特别适用于油田（包括海洋）、地质钻井、矿山开采及易爆、易燃气体等场所。

Adopting pneumatic motor as power, XJFH series Pneumatic winch can tow and lift heavy goods through speed-reducing gearbox to drive roll. It has the advantages of compact structure,, convenient operation, safety and reliable operating, simple maintenance, smoothly running and stepless speed-changing etc. It is suitably used in oil field, well-drilling in oil field, mine-exploiting and other place with inflammable or easy exploding air.

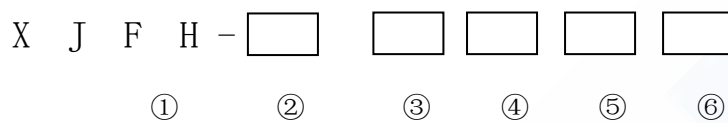
XJFH 系列气动绞车按底座结构型式可分为普通高底座、普通矮底座、法兰座、梯形扣座、直丝扣座、油壬座、耳板座等多种型式，按制动系统类型可分为单刹（手刹）、双刹（手刹+脚刹、手刹+断刹）、三刹（手刹+脚刹+断刹）。用户可根据不同习惯和使用场合选用。

XJFH pneumatic winch according to the base structure type can be divided into high base, low base, flange seat, ladder buckle seat, straight thread seat, unionset seat, ear plate seat types。 the system is classified into single-brake(hand brake), double-brake(hand brake and foot brake),three brakes(hand brake 、 foot brake and auto brale) according to brake types, it is classified into hand-brake, foot-brake, hydraulic-brake and pneumatic brake .

另外, XJFH 系列气动绞车还备有压扣钢丝绳、吊钩、卸扣、坠链、气处理三联件等自选配置, 用户可根据自身需求及所选绞车进行选用

In addition, XJFH pneumatic winch is equipped with wire rope, hook, shackle, pendant, gas processing triple pieces choice configuration, the user can choose according to their own needs and selected winch

## 2.1 编号方法 (Numbering method)



- ① XJFH: 活塞式风动绞车。(XJFH: The piston type Pneumatic Winches)
- ② 第一层绳最大提升力:  $\times 10$  kN。(First floor Max. lifting force:  $\times 10$  kN)
- ③ 最大绳速: m/min。Max. lifting speed: m/min
- ④ 产品变型标示: 基本型无代号。The product change the type mark: The basic type has no code
- ⑤ 底座形式标示 The base form mark

普通高座: 省略; 普通矮座: L; 法兰底座: F; 梯形扣底座: T ;High base: ellipsis;low base: L; flan base : F; T type base: T

直丝扣底座: M; 油壬底座: Y; 耳板底座: E。M type base: M; Y type base: Y; E type base: E

- ⑥ 制动形式: 单制动手刹: 省略; 双制动(手刹+脚刹): S; brake type: single hand brake: ellipsis; double brake (hand brake + foot brake) : S

断刹制动(手刹+断刹): Z; 三制动(手刹+脚刹+断刹): ZS。Double brake (hand brake + auto brake) : Z; three brake (hand brake+foot brake+auto brake) : ZS







## 2.2 XJFH 系列风动绞车技术参数表

项 目 Item	规格及参数 Specification			
型 号 Model	XJFH-3/35 *	XJFH-5/35 *	XJFH-8/25 *	XJFH-10/20 *
第一层绳最大提升力 Max. lifting force	30kN	50kN	80kN	100kN
最大绳速 Max. lifting speed	35m/min	35m/min	25m/min	20m/min
额 定 功 率 Rated power	13.2kw	16kw	30kw	30kw
额定进气压力 Air intake pressure	0.8Mpa	0.8Mpa	0.8Mpa	0.8Mpa
额定耗气量 Rated air consumption	12.7m <sup>3</sup> /min	18.3m <sup>3</sup> /min	25.6m <sup>3</sup> /min	25.6m <sup>3</sup> /min
容 绳 量 Wire capacity	160m (单刹 Single brake) 140m (双刹 Double brake)	140m (单刹 Single brake) 120m (双刹 Double brake)	120m	120m
钢丝绳直径 Diameter of wire	16mm (5/8 in)	20mm (3/4 in)	24mm (15/16 in)	24mm (15/16 in)
底座连接尺寸 Base connecting dimension	912mm × 500mm (高底座 High base) 912mm × 392mm (矮底座 low base)	912mm × 500mm (高底座 High base) 912mm × 392mm (矮底座 low base)	1300mm × 700mm (高底座 High base)	1300mm × 700mm (高底座 High base)
重 量 Net weight	550Kg (500Kg)	550Kg (500Kg)	1300Kg	1400Kg

## 2.3 XJFH-5/25KZP 型自动排绳绞车

XJFH-5/25KZP 型自动排绳绞车是我公司最新研制的带自动排绳机构的绞车，它解决了自动排绳绞车工作时容易乱绳的世界性难题。自动排绳绞车可作为防爆牵引，提升动力装置，特别适用于油田、地质钻井、矿山开采及有易燃、易爆气体的场所。

自动排绳绞车的特点如下：

- 1、结构紧凑、体积小、重量轻；
- 2、可以无级调速；
- 3、操作方便，可以正反转；
- 4、工作安全、可靠，特别适用于有易燃、易爆气体的场所；
- 5、起动力矩大，可带负荷启动；
- 6、维护保养简单、方便，运转平稳；
- 7、能自动排、出绳。



### XJFH-5/25KZP 型自动排绳绞车技术参数

项 目 Item	规格及参数 Specification
型 号 Model	XJFH-5/25KZP
第一层绳最大提升力 Max. lifting force	50kN
最 大 绳 速 Max. lifting speed	25m/min
额 定 功 率 Rated power	16kw
额定进气压力 Air intake pressure	0. 8Mpa
额定耗气量 Rated air consumption	18.3m <sup>3</sup> /min
容 绳 量 Wire capacity	120M
钢丝绳直径 Diameter of wire	20mm (15/16 in)
重 量 Net weight	550Kg (500Kg)

### 3.JQHS 型气动绞车 (JQHS pneumatic winch)

JQHS 系列气动绞车是以气动马达为动力，通过齿轮减速机构驱动卷筒，实现重物牵引和提升的绞车装置。它具有结构紧凑、操作方便、工作安全可靠、维修简单、运转平稳、无级变速等优点。作为防爆牵引，提升动力装置，特别适用于油田（包括海洋）、地质钻井、矿山开采及易爆、易燃气体等场所。

Adopting pneumatic motor as power, JQHS series Pneumatic winch can tow and lift heavy goods through

speed-reducing gearbox to drive roll. It has the advantages of compact structure,, convenient operation, safety and reliable operating, simple maintenance, smoothly running and stepless speed-changing etc. It is suitably used in oil field, well-drilling in oil field, mine-exploiting and other place with inflammable or easy exploding air.

### 3.1 编号方法 (Numbering method)

J Q H S-  ×

①                      ②                      ③                      ④                      ⑤

①、JQHS: 双支撑活塞式气动绞车; JQHS: Double support piston type pneumatic winch

②、第一层钢丝绳最大提升力: kN; max lifting force in first layer: kN

③、最大绳速: m/min。max speed: m/min

④、制动方式: X-手刹、内置刹车; Z-手刹、断刹; S-手刹、脚刹; brake:X-hand brake 、 disc brake; Z-hand brake、 auto brake; S-hand brake 、 foot brake;

⑤、变型产品序号:A、B、C等。Variant product serial number: A、B、C etc



JQHS-5×12 型气动绞车



JQHS-50×12X 型气动绞车



JQHS-100×6X 型气动绞车



JQHS-50×20X 型气动绞车

### 3.2 JQHS 型气动绞车技术参数

项 目 Item	规格及参数 Specification			
型 号 Model	JQHS-5×12	JQHS-50×12X	JQHS-50×20X	JQHS-100×6X
第一层绳最大提升力 Max. lifting force	5kN	50kN	70kN	150kN
最外层钢丝绳拉力 Max.out layer lift force	3kN	30kN	50kN	100kN
最大绳速 Max. lifting speed	12m/min	12m/min	20m/min	6m/min
额定功率 Rated power	2.6kw	16kw	16kw	30kw
额定进气压力 Air intake pressure	0.8Mpa	0.8Mpa	0.8Mpa	0.8Mpa
额定耗气量 Rated air consumption	3m <sup>3</sup> /min	18.3m <sup>3</sup> /min	18.3m <sup>3</sup> /min	25.6m <sup>3</sup> /min
容 绳 量 Wire capacity	30	120	150m	300m
钢丝绳直径 Diameter of wire	8mm (8/25 in)	20mm (3/4 in)	20mm (3/4 in)	24mm (15/16 in)
重 量 Net weight	550g	700Kg	1100Kg	2200Kg

### 4 JQH 型气动绞车 (JQH Pneumatic Winch)

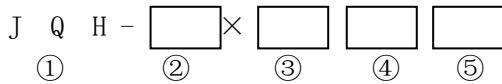
JQH 型气动绞车是一种以活塞式气动机为动力的单滚筒的绞车，绞车主要是供油田钻井（包括海洋）、金属矿、煤矿等采掘矿场、建筑工程等部门拖运，或提升重物用。

由于它具有体积小、重量轻、速度可调、易于搬运和快速安装等特点，因此，对于采掘矿场的井下作业更为适用。如在掘井、回采工作面的装载站上调度，拖运矿车和在井下的狭窄巷道中提升，牵引工具、器械等重物。

JQH Pnuematic Winch is a kind of single roller, which takes piston pneumatic engine as impetus, It is mainly used for hauling or lifting weights in metal and coal mining site, construction project etc.

Having the advantages of small dimentions, light weight, adjusting speed, carrying easily and quick installation, it is more suitable for working under mine, for example, digging pit, attemper in stowage station of stoping working face, hauling traction of heavy tools and instrument etc.

## 4.1 编号方法 (Numbering method)



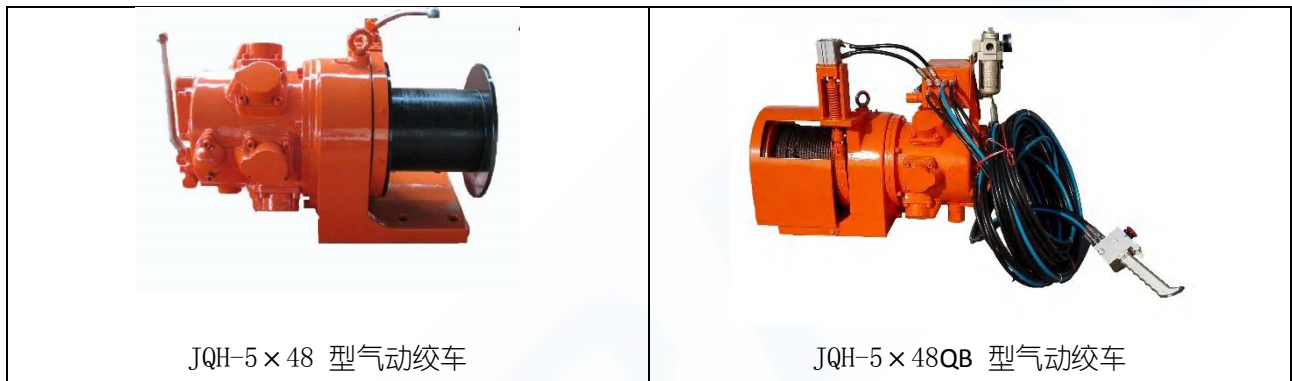
①、JQH: 单支撑活塞式气动绞车; Single support piston type pneumatic winch

②、第一层钢丝绳最大提升力: kN; max lifting force in first layer: lb

③、最大绳速: m/min。max speed: ft/s

④、Q: 远控气控 (Remote control gas control) ; D: 电控 (electronic control) ; Y: 遥控 (telecontrol) ;

⑤、变型产品序号:A、B、C等 (Variant product serial number: A、B、C etc)



## 4.2 JQH 系列气动绞车技术参数

序号	参 数			
	型 号	JQH-5×48 (Q、D、Y) *	JQH-10×24 (Q、D、Y) *	
1	额定进气压力 (MPa)	0.8	0.8	
2	第一层绳最大提升力 (kN)	5	10	
3	最大绳速 (m/min)	48	24	
4	气 动 马 达	额定功率 (kW)	2.6	2.6
		气缸数 (只)	6	6
		气缸直径 (mm)	65	65
		活塞行程 (mm)	50	50
5	滚 筒	直径 (mm)	180	200
		宽度 (mm)	200	200
		轮缘直径 (mm)	290	380
		容绳量 (m)	60	60
6	钢丝绳直径 (mm)	8	11	
7	风管直径 (mm)	25	25	
8	外形尺寸	长×宽×高 (mm)	680×350×465	690×390×570
9	总重 (kg)	116	176	

## 5 CJ 型测井绞车

CJ 型测井绞车用于测量油井的斜度和深度，结构上采用液压机械无级变速，操作方便，运转平稳，变速范围大，提升重量大，测量深度深，电器元件可根据用户要求采用防爆或非防爆装置，安全可靠。绞车配有计数器部件，显示测量深度，并能有效地保护油井测量设备，比国内同类产品有较大的优越性，是油田测井的理想设备。

CJ logging winch is used for logging the depth and deviation of oil well, with stepless speed regulation, easy operation, safety and stability in working, wide range in speed regulation, big power in lifting, high ability in logging depth, moreover electric parts can be employed with exploiting proof services, or no-proof services according to the using situation of users, so the machine is very dependable. This windlass still can appear the depth of oil well for it's counter parts and protect other oil well logging machines. So it is ideal machine for well-logging in oil field.

### 5.1 编号方法 (numbering method)

(D) CJ □□-□ □ □

① ② ③ ④ ⑤ ⑥

① 型式代号-(CJ-液压无级调速型；DCJ-电动变频调速型)；Type code-( CJ- Hydraulic stepless speed；DCJ- Variable frequency speed)

② 框架变型标示 (L-立式；基本型不注)；variant marking (L - vertical; basic type no note).

③ 最大测井深度：m；Maximum logging depth: m.

④ 绳缆直径，mm (推荐  $\phi 2.5$  不标示)；Cable diameter, mm (recommended 2.5 not marked).

⑤ 防爆标示 (F-防爆型；普通型无标示)；Explosion proof marking (F- explosion-proof type; ordinary type without label);

⑥ 计数系统标示 (Z-智能计数系统；普通计数系统无标示。Counting system designation (Z- intelligent counting system; common counting system no marking);



CJ6000F 型测井绞车



CJ9000F 型测井绞车





CJ6000FZ 型测井绞车



CJ6000LFZ 型测井绞车

## 5.2 CJ 型测井绞车技术参数

型号(model)	CJ6000F		CJ9000F	
测量深度(depth)	6000m		9000m	
功率(power)	7.5kW		11kW	
液压系统额定工作压力(pressure)	≤15.7MPa		≤15.7MPa	
最大提升力(max lifting force)	4077N		4077N	
钢丝绳直径(wire diameter)	φ 2.5mm		φ 2.5mm	
形式(type)	齿轮变速加液压无级变速		齿轮变速加液压无级变速	
卷筒各档最大转速(speed)	档位	卷筒最大转速(r/min)	档位	卷筒最大转速(r/min)
	I	91	I	91
	II	170	II	170
外形尺寸(overall dimension)	长×宽×高 (mm) = 895×920×975		长×宽×高 (mm) = 1090×900×1150	
连接尺寸(connecting diamention)	长×宽×孔 (mm) = 800×655×φ 20		长×宽×孔 (mm) = 810×800×φ 20	
重量(weight)	800kg		950kg	

## 6 .DSJ 型倒绳机(DSJ rope Capstan machine)

DSJ 系列倒绳机是油田钻井作业中用来收、放钢丝绳的专用设备。使用该设备可以将使用后的钢丝绳重新收盘，以利于搬迁和钢丝绳的再次使用，还可以防止钢丝绳打卷、扭曲，有保护钢丝绳的作用；同时减轻工人收、放钢丝绳的劳动强度，实现收、放钢丝绳作业机械化。该产品也可用于大型电缆、电线铺设中的收、放作业。

根据用户的不同需求，其动力系统有液压、电动和气动等形式，液压型和气动型均可实现无级调速，电动型有恒速型和无级调速型，可根据用户的不同需求设计制作不同吨位、扭矩及结构形式的产品，亦可根据用户要求增设引绳滚筒。

As a special equipment, DSJ Rope Capstan Machine is applied for taking-up and expanding the wire rope. While in the progress of making use of this machine, the wire rope that has been used before can be taken up over again for the purpose of removing and reusing the wire rope, of which another aim is to prevent the wire rope from wrapping and distorting in order to protect the wire rope. At the same time, this machine can lighten the laboring work while workers are taking-up and expanding the wire rope to realize the mechanization of taking-up and expanding the wire rope. Therefore, it is considered especially to be applicable for pulling on and taking out the wire rope before and after drilling in the oil field, and also for taking-up and expanding the large scale of cable and wire.

According to the different needs of users, the power system of hydraulic, electric and pneumatic form, dynamic hydraulic stepless speed type and electric type type can be varied speed and stepless speed regulation, can be designed according to the different needs of users of different tonnage, torque and structure of products, can also be based on user request for additional rope drum.

### 6.1 编号方法: (numbering method)

DSJ □ -□ × □□□

① ② ③ ④ ⑤ ⑥

① 引绳滚筒标示: S-同轴引绳卷筒; C-侧置引绳卷筒; 不带引绳滚筒无标示。Rope drum marking : S- coaxial rope reel; C- side rope reel; without drag rope roller without sign.

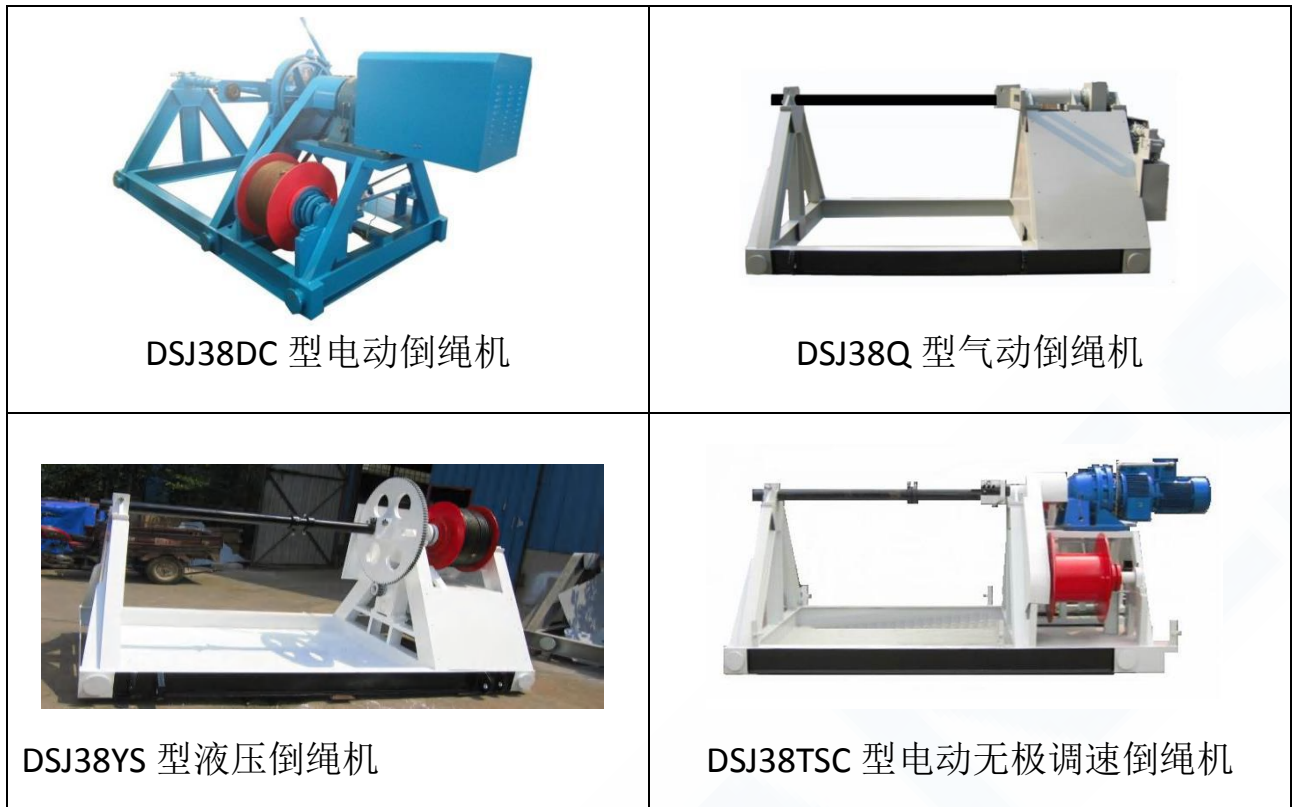
② 动力型式: Y-液压型; D-电动型; T-电动调速型; Q-气动型。Power type: Y- hydraulic type; D- electric type; T- electric speed regulation; Q- pneumatic type.

③ 最大输出转速: r/min。maxspeed: r/min.

④ 最大承载重量, ×1000kg。Maximum load weight: ×1000kg。

⑤ 主滚筒绳缆直径标示(一般不标注)。Main drum rope diameter (generally not marked)。

⑥ 倒绳机。Rope Capstan Machine。



## 6.2 倒绳机技术参数

序号 No	项目 item	技术参数 specificaton			
1	型号 model	DSJ38DC	DSJ38YS	DSJ38Q	
2	输出转速 (out speed)	11 (r/min)	0.55-17.5 (r/min)	0-13 (r/min)	
3	输出转矩 (out torque)	10000 (N.m)	10000 (N.m)	10000 (N.m)	
4	功率 (power)	7.5kW	7.5kW	16 kW	
5	容绳量(38mm)(rope capacity)	1000m	1200m	1200	
6	承载重量 (Load weight)	8000 (kg)	8000 (kg)	10000 (kg)	
7	绳轮尺寸 (roll)	最大宽度 (width)	1200 (mm)	1200 (mm)	1640 (mm)
		最大外径 (external diameter)	2200 (mm)	2200 (mm)	2200 (mm)
		最小中心孔径 Center hole	100 (mm)	100 (mm)	100 (mm)
8	外形尺寸 (长×宽×高) Overall dimension	3200×1790×1880 (mm)	3200×1790×1880 (mm)	3045×2050×1845 (mm)	
9	重量 (weight)	1000 (kg)	1200kg	1450 (kg)	

## 7 液压绞车

HW (YJ) 系列液压绞车是引进意大利技术，并作进一步改进的新颖产品。该系列产品拉力为 5kN~300kN 规格齐全，品种多样。其广泛适用于船舶、铁路、工程机械、石油、地质勘探、冶金等行业。

HW (YJ) series hydraulic winches are improved product based on the advanced Italy technology.. A diversity of model (5kN ~ 300kN line pull) can ensure the customer satisfaction. Hereby they have been widely applied on ship, marine, railway, construction machinery and equipment, petroleum, geologic exploration, metallurgy.

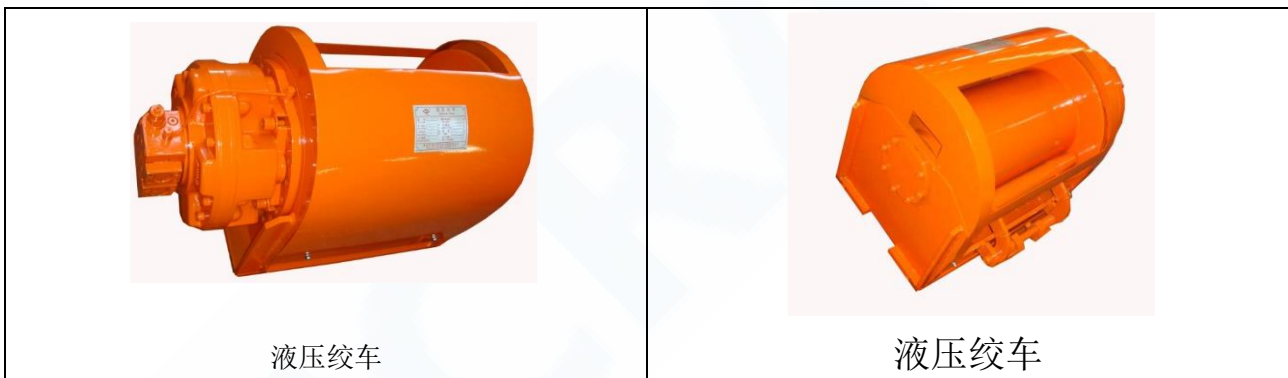
### 7.1 编号方法:

HW (YJ) -      \*

①            ②

①: 液压绞车 Hydraulic winches

②: 卷筒第一层单绳额定拉力 ( ×10kN) Single line pull in 1<sup>st</sup> layer (×10kN)



### 7.2 液压绞车技术参数

项目 item	技术参数 specificaton		
型号 Model	HW-3	HW-5	HW-8
最大提升重量 (kN) Max lifting force (lb)	30 6745	50 11240	80 17985
绳速 (m/min) lifting speed (ft/s)	30 1.64	25 1.36	30 1.65
额定功率 (kw) Rated power (H.P)	48 64	40 53	50 67
马达排量 (ml/r) Motor output volume (ml/r)	314	623	1116
系统推荐流量 (l/min) oil consumpiton (l/min)	86	120	200

钢丝绳直径 (mm) Wire rope diameter (in)	16 0.63	20 0.787	24 0.95
容绳量 (m) Rope capacity (ft)	120 400	120 400	160 525
外形尺寸 (长×宽×高 mm) Overall dimension(L ×W×H) in	813×430×500 32×17×20	904.5×480×565 36×19×22	970×728×705
重量 (kg) Weight (lb)	600 1320	700 1545	900 1985