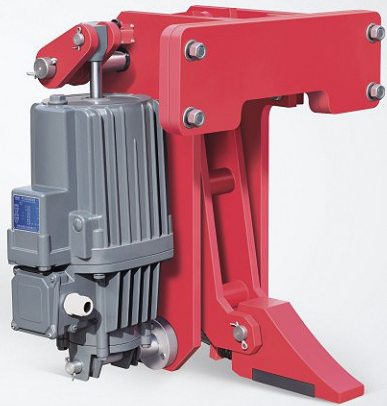


YFX Series electro-hydraulic storm braking wedges brakes

YFX系列
电力液压防风铁楔制动器



YFX Series

应用 Application

YFX系列电力液压防风铁楔制动器主要作为港口、码头、铁路等露天工作的龙门起重机、门座式起重机、装卸桥等各种有轨起重机在工作状态下的防风制动。同时也可与锚定装置、防风拉索等共同作用，用于起重机非工作状态下的安全防风制动措施。

APPLICATION

YFX series electric hydraulic wind proof iron wedge brake is mainly used for wind proof braking of gantry crane, portal crane, loading and unloading bridge and other rail cranes working in open air such as port, wharf and railway. At the same time, it can also work together with anchoring device and wind proof cable to take safe wind proof braking measures for crane under non working state.

主要特点 Main Feature

- 结构紧凑，造型美观。
- 匹配Ed推动器，动作性能优良，外壳防护等级IP65。
- 主要摆动铰点均设有自润滑轴承，传动效率高，动作迅速灵敏可靠，且使用寿命长。
- 具有手动释放功能，维护方便。
- 推动器具有弹簧复位功能，避免断电后推动器动作不灵敏楔块不能及时复位。
- 楔块经特殊工艺处理，摩擦系数高，防腐性能好。
- 具有行程开关，显示工作状态。

MAIN FEATURE

- Compact structure and beautiful design.
- Match Ed pusher, excellent performance, enclosure protection level IP65.
- The main swing hinge points are equipped with self-lubricating bearings, which have high transmission efficiency, quick, sensitive and reliable action and long service life.
- With manual release function, easy maintenance.
- The pusher has spring reset function to avoid insensitive wedge of the pusher not resetting in time after power failure.
- The wedge is treated by special process with high friction coefficient and good corrosion protection.
- It has a stroke switch and displays the working state.

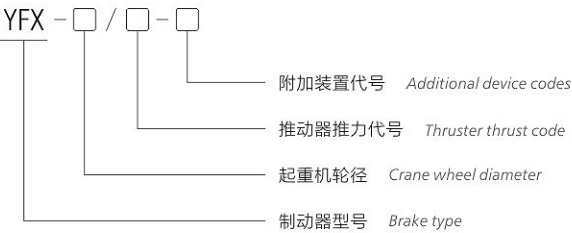
使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 相对湿度：空气相对湿度不大于90%
- 电源电压：三相、交流380V、50Hz
- 使用地点的海拔高度符合GB755-2008有关规定。
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。
- 技术参数：单台防风铁楔制动器的防风力（折算为水平方向的力F）
 $F=f \times N_{\text{轮}}$ （N轮为轮压，f为摩擦系数=0.46）
- 整机应装的台数： $S=2.5P_w/F$ （ P_w 为风载荷=CKhqA）
参见起重机设计规范。

OPERATING CONDITION

- Ambient temperature: -20℃~+50℃
- Relative humidity: air relative humidity is not more than 90%
- Voltages: AC 3 phase 380V 50Hz
- The elevation of the site complies with the relevant regulations of GB755-2008.
- Outdoor rain and snow erosion or corrosive gases and media, anti-corrosion products shall be used.
- Technical data: Wind-proof force of single wind proof iron wedge brake (Translated into force F in horizontal direction)
 $F=f \times N_{\text{wheel}}$ (N wheel is wheel pressure, f coefficient of friction=0.46)
- Number of units to be installed: $S=2.5P_w/F$ (Pw is wind load=CKhqA)
Refer to crane design specification.

型号意义 Model Significance

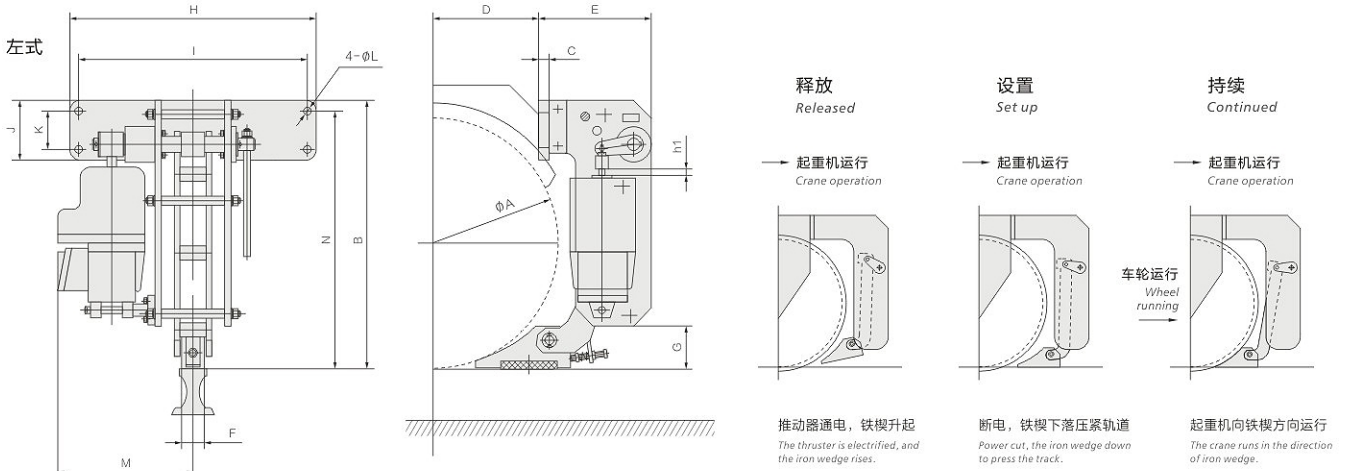


注：若电源为380V 50Hz订货时可不注明，否则请注明电源电压及频率。
Note: If the power supply is 380V 50Hz, it may not be indicated when ordering, otherwise please indicate the power supply voltage and frequency.

制动器附加功能表 Brake Additional Menu

功能代号	表示意义 Significance of
K1	上升显示行程开关 Increase display limit switch
S1	左式安装 Left-mounted installation
S2	右式安装 Right-mounted installation

安装及外形尺寸 Outline and installation dimension



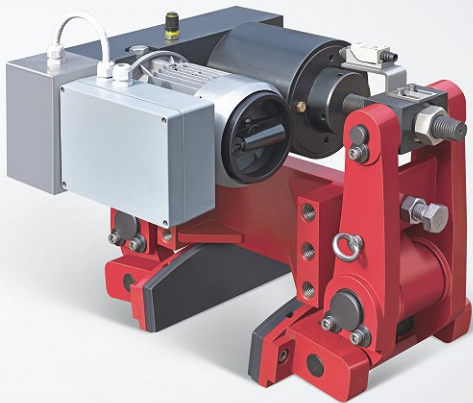
YFX系列防风铁楔制动器技术参数及安装尺寸 Technical data and dimension

制动器型号 Brake type	推动器型号 Thruster type	安装及外形尺寸 Dimensions (mm)															重量 Weight (kg)
		ΦA	B	C	D	E	F	G	H	I	J	K	L	M	N	h1	
YFX-350/80	Ed80/6ws	350	640	20	180	310	60	55	520	460	165	100	18	360	607	8	129
YFX-400/80		400			240										605		
YFX-500/80	Ed80/6ws	500	640	20	240	310	60	55	480	430	165	100	18	360	605	8	129
YFX-550/80		550															
YFX-600/80	Ed80/6ws	600	760	25	260	315	60	120	650	600	170	100	22	360	725	8	146
YFX-630/80		630															
YFX-700/80	Ed80/6ws	700	760	25	300	315	70	120	700	650	170	100	22	360	725	8	149
YFX-710/80		710															
YFX-800/80	Ed80/6ws	800	950	25	300	315	70	120	700	650	170	100	22	395	915	8	164

- 注：电力液压防风铁楔制动器分为左式和右式，从上图的主视图看，推动器在左边为左式，在右边为右式。
Note: The electric hydraulic wind proof iron wedge brake is divided into left type and right type. From the main view above, the pusher is left type on the left and right type on the right.
- 由于规格不同，具体结构可能与上图有差异。 Due to different specifications, the specific structure may differ from the above figure.
- 具体型号，结构及外形尺寸保留更改的权利。 The size of the specific type and structure should be retained.

DYLZ Series
electro-hydraulic
wheel brakes

DYLZ 系列
电液轮边制动器



DYLZ Series

应用 Application

• DYLZ系列电液轮边制动器，主要作为港口、码头等露天使用的大中型起重机及港口装卸机械工作状态下的防风制动和非工作状态下的辅助防风制动。

APPLICATION

• DYLZ series electro-hydraulic wheel brake is mainly used as wind proof braking under working conditions and auxiliary wind proof braking under non working conditions for large and medium-sized cranes and port handling machinery used in the open air such as ports and wharfs.

主要特点 Main Feature

- 结构紧凑，造型美观。
- 具有体积小、重量轻、集成程度高等诸多优点。
- DYLZ系列电液轮边制动器将电气控制系统、液压系统、制动油缸集成化设计，减少了管路布置，提高了安装维护效率。
- 常闭式设计，液压站驱动施力于碟形弹簧而释放，安全可靠。
- 设有释放限位开关，可进行信号显示或联锁保护。
- 无石棉摩擦衬垫，摩擦系数高且稳定，对水和盐雾（海水）不敏感。
- 防腐型设计，全部紧固件和销轴为不锈钢制造，防腐性好。

MAIN FEATURE

- Compact structure and beautiful appearance.
- The utility model has the advantages of small volume, light weight and high integration.
- DYLZ series electro-hydraulic wheel side brake integrates electrical control system, hydraulic system and brake cylinder, reduces pipeline layout and improves installation and maintenance efficiency.
- Normally closed design, the hydraulic station drives the disc spring to release, which is safe and reliable.
- It is equipped with release limit switch for signal display or interlocking protection.
- Asbestos free friction pad, high and stable friction coefficient, insensitive to water and salt spray (seawater).
- Corrosion resistant design, all fasteners and pins are made of stainless steel, with good corrosion resistance.

使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 工作电源：3PH AC380V、50Hz
- 使用地点的海拔高度应符合GB755-2008标准。
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。
- 有特殊要求时，在订货时协商确定。

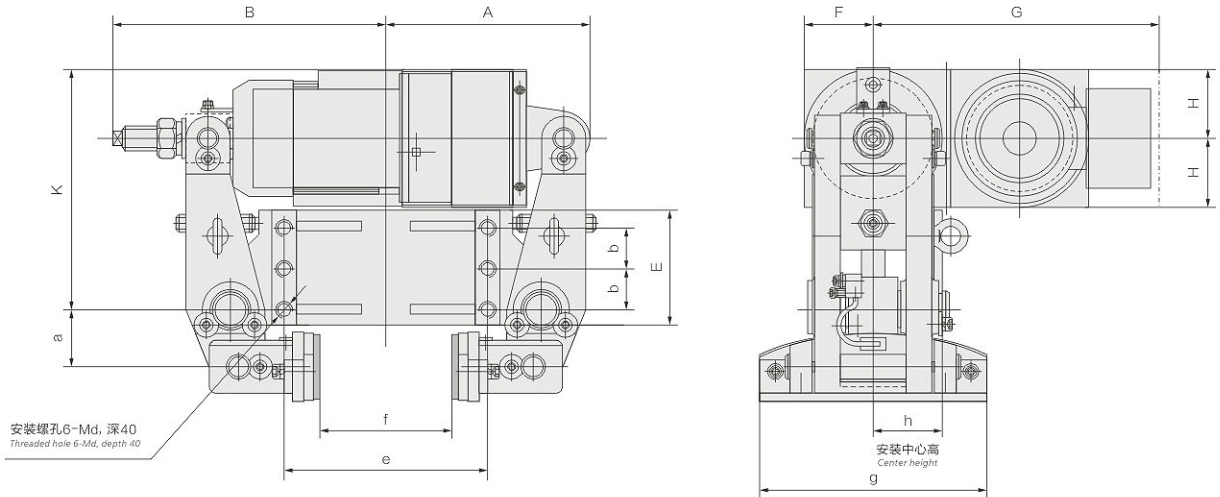
OPERATING CONDITION

- Ambient temperature: -20℃~+50℃
- Working power supply: 3PH AC380V, 50Hz
- The altitude of the place of use shall comply with GB755-2008 standard.
- Outdoor rain and snow erosion or corrosive gases and media, anti-corrosion products shall be used.
- Special requirements can be discussed before production.

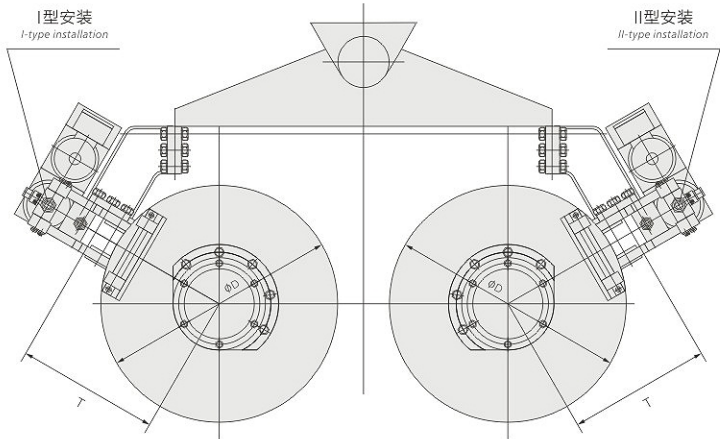
型号意义 Model Significance



安装及外形尺寸 Outline and installation dimension



- 注：该安装图为右式，左式与右式完全对称。
Note: the installation drawing is right type, and the left type and right type are completely symmetrical.



特别说明 Special description

- $T=75+D/2$ (用于DYLZ25、DYLZ40)
- $T=85+D/2$ (用于DYLZ63、DYLZ100)
- D为轮缘外径。

SPECIAL DESCRIPTION

- $T=75+D/2$ (for DYLZ25 and DYLZ40)
- $T=85+D/2$ (for DYLZ63 and DYLZ100)
- D is the outer diameter of the rim.

DYLZ系列电液轮边制动器技术参数及安装尺寸 Technical data and dimension

制动器型号 Brake type	额定 夹紧力	额定 制动力	开闸 间隙	开闸 时间	闭闸 时间	电机 功率	安装尺寸 Dimensions (mm)												重量	适用轮压 P		
	Rated clamping force (kN)	Rated braking force (kN)	Release clearance (mm)	Release time (s)	Close time (s)	Motor power (W)	a	b	e	h	d	f	g	A	B	K	E	F	G	H	Weight (kg)	Applicable wheel ressure (T)
DYLZ25-□	50	42	1-1.5	2-3	0.2s ~ 5s	550	70	50	250	85	M20	135-200	278	250	335	295	140	85	350	85	110	P≤25
DYLZ40-□	73	63				70	50	250	85	M20	135-200	278	250	335	295	140	85	350	85	115	25<P≤40	
DYLZ63-□	114	96	1-1.5	2-3		750	80	55	290	95	M24	140-220	320	290	375	325	150	85	350	85	155	40<P≤63
DYLZ100-□	180	150				80	55	290	95	M24	140-220	320	290	375	325	150	85	350	85	160	63<P≤100	

- 注：当轮宽尺寸f不在表中范围值内时，可与我公司技术部门取得联系。
Note: When the wheel width dimension f is not within the range in the table, you can contact the technical department of our company.

- 具体型号，结构及外形尺寸保留更改的权利。 The size of the specific type and structure should be retained.

DYJG Series electro-hydraulic rail clamp

DYJG 系列 电液夹轨器

应用 Application

- DYJG系列电液夹轨器，主要用于各种桥式、门式集装箱起重机等轨道式机械工作状态下的防风制动和非工作状态下的辅助防风制动及抵御其它外来的冲击力。

APPLICATION

- DYJG series electro-hydraulic rail clamp is mainly used for wind proof braking under working conditions and auxiliary wind proof braking under non working conditions of various bridge, gantry container cranes and other rail machinery, as well as resisting other external impact forces.

主要特点 Main Feature

- 结构紧凑，造型美观。
- 具有体积小、重量轻、集成程度高等诸多优点。
- DYJG系列电液夹轨器将电气控制系统、液压系统、制动油缸集成化设计，减少了管路布置，提高了安装维护效率。
- 常闭式设计，液压站驱动施力于碟形弹簧而释放，安全可靠。
- 设有释放限位开关，可进行信号显示或联锁保护。
- 无石棉摩擦衬垫，摩擦系数高且稳定，对水和盐雾（海水）不敏感。
- 防腐型设计，全部紧固件和销轴为不锈钢制造，防腐性好。

MAIN FEATURE

- Compact structure and beautiful appearance.
- The utility model has the advantages of small volume, light weight and high integration.
- DYJG series electro-hydraulic rail clamp integrates electrical control system, hydraulic system and brake cylinder, reduces pipeline layout and improves installation and maintenance efficiency.
- Normally closed design, the hydraulic station drives the disc spring to release, which is safe and reliable.
- It is equipped with release limit switch for signal display or interlocking protection.
- Asbestos free friction pad, high and stable friction coefficient, insensitive to water and salt spray (seawater).
- Corrosion resistant design, all fasteners and pins are made of stainless steel, with good corrosion resistance.



DYJG Series

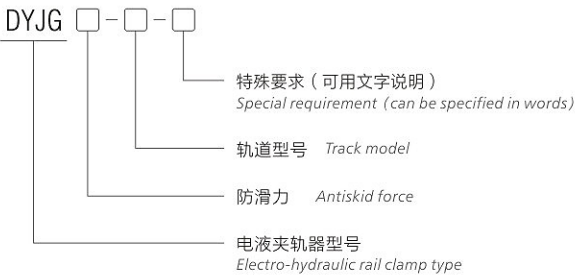
使用条件 Operating Condition

- 环境温度：-20℃ ~ +50℃
- 工作电源：3PH AC380V、50Hz
- 使用地点的海拔高度应符合GB755-2008标准。
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。
- 有特殊要求时，在订货时协商确定。

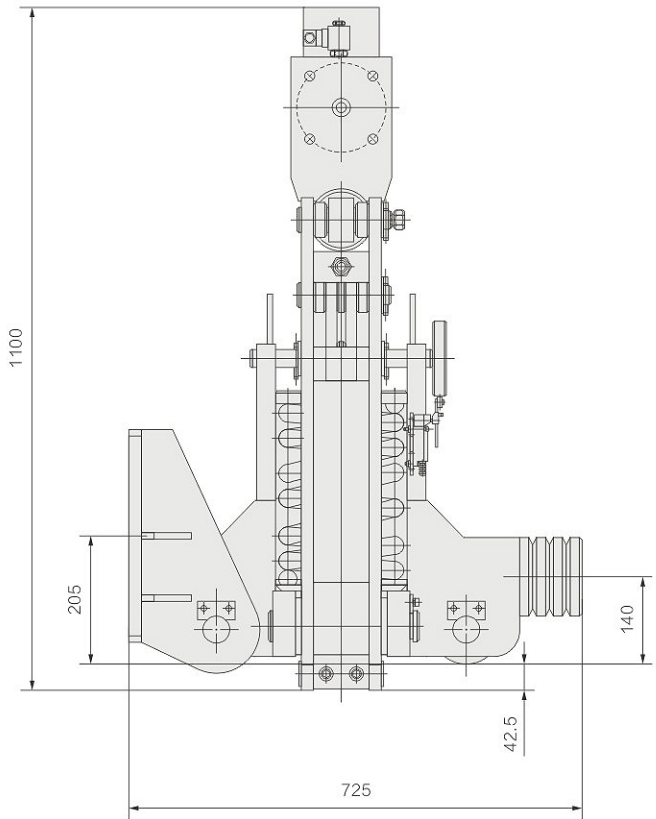
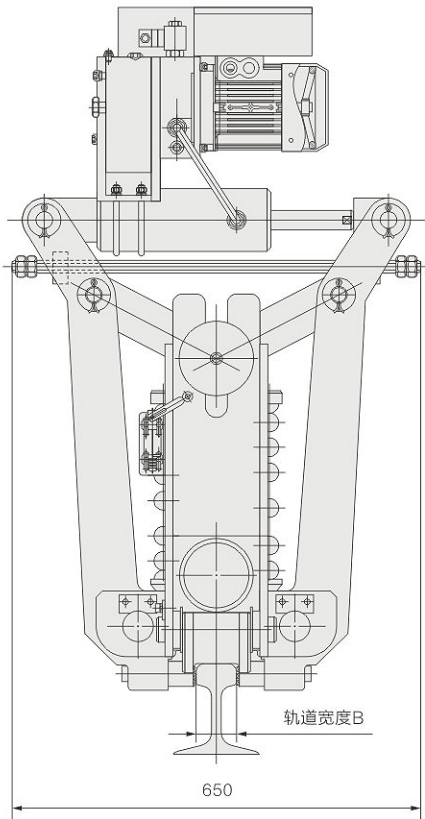
OPERATING CONDITION

- Ambient temperature: -20℃ ~ +50℃
- Working power supply: 3PH AC380V, 50Hz
- The altitude of the place of use shall comply with GB755-2008 standard.
- Outdoor rain and snow erosion or corrosive gases and media, anti-corrosion products shall be used.
- Special requirements can be discussed before production.

型号意义 Model Significance



安装及外形尺寸 Outline and installation dimension



特别说明 Special description

- 夹轨器必须配套液压站或动力单元用，订货时请注明电压等级。
- 若电机电源为三相AC380V/50Hz可不标，其它电源需注明。

SPECIAL DESCRIPTION

- The rail clamp must be matched with hydraulic station or power unit. Please indicate the voltage level when ordering.
- If the motor power supply is three-phase AC380V/50Hz, it may not be marked, and other power supplies shall be indicated.

DYJG系列电液夹轨器技术参数 Technical data of DYJG series electro-hydraulic rail clamp

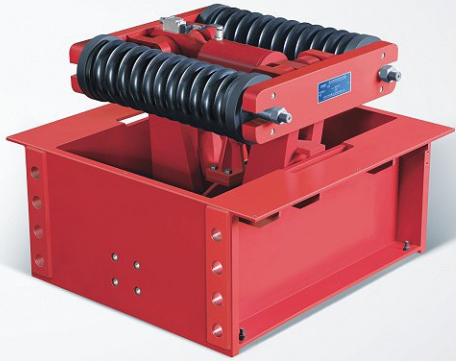
夹轨器型号 Rail clamp type	夹紧力 Clamping force (KN)	摩擦系数μ Friction coefficient	防滑力 Antiskid force (KN)	钳口单边间隙 Jaw unilateral clearance (mm)	工作电源 Working power supply	电机功率 Motor power (W)	主体左右传动 Left and right transmission of main body	可使用导轨 Guide rails can be used	重量 Weight (kg)
DYJG100	200KN	≥0.25	100KN	4mm	3PH AC380V 50Hz	550W	± 25mm	P60, P50, P43, P38, QU70, QU80	300

- 注：表中钢轨型号为推荐配用型号，如需与其它轨道型号相配，请订货时协商确定。
Note: The rail model in the table are recommended. If you want to match other rail models, please consult and confirm when ordering.

- 具体型号，结构及外形尺寸保留更改的权利。
The size of the specific type and structure should be retained.

YJGQ Series hydraulic rail clamp

YJGQ系列 液压式夹轨器



YJGQ Series

应用 Application

- YJGQ系列液压夹轨器是一种防止轨道式运行机械沿轨道方向自由运动的安全装置，主要用于室外各种起重机械工作状态及非工作状态下的防风制动，室外起重机自行式起重小车的防风制动以及皮带运输机卸料车的定位制动等。

APPLICATION

- YJGQ series hydraulic rail clamp is a safety device to prevent the free movement of track running machinery along the track direction. It is mainly used for wind braking of outdoor lifting machinery under working and non working conditions, wind braking of outdoor crane self-propelled lifting trolley and positioning braking of leather belt conveyor unloader.

主要特点 Main Feature

- 常闭式设计、安全可靠，弹簧夹持，液压站驱动释放。
- 防腐型设计。
- 设有释放限位开关，可与起重机行走机构进行联锁保护。
- 钳体为可浮动式结构：水平浮动距离±20mm，垂直浮动距离±10mm。
- 主机与液压站一般采用整体结构。如有特殊需要，主机可与液压站分离，请订货时事先说明。

MAIN FEATURE

- Normally closed design, spring clamping, hydraulic station drive release.
- Corrosion resistant design.
- It is equipped with a release limit switch, which can be interlocked with the crane traveling mechanism for protection.
- The clamp body is a floating structure: the horizontal floating distance is ±20mm, Vertical floating distance ±10mm.
- The main engine and hydraulic station generally adopt the overall structure. If there are special needs, the main engine can be separated from the hydraulic station. Please explain in advance when ordering.

- 注：夹轨器必须配套液压站或动力单元用，订货时请注明电压等级。（若机电电源为三相AC380V/50Hz，控制电源为AC220V/50Hz可不标，其它电源需注明。另：动力单元不配电控箱。）

Note: Rail clamp must be used together with hydraulic power unit and power unit. Please specify voltage (not necessary if power supply of motor is AC380V/50Hz, and control power supply is AC220V/50Hz, other should be specified. And, power unit don't have electric control boxes equipped.)

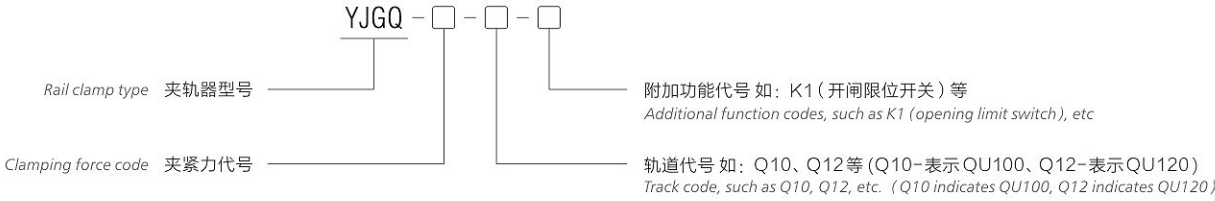
使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 液压站驱动电源：一般用于三相AC380V、50Hz 如需其它电压,请订货时事先说明。
- 液压站控制电源：AC220V、50Hz
- 限位开关电源：125V~250V
- 适用的工作方式：间断式，短时作用，较低频率。
- 有特殊要求时，在订货时协商确定。

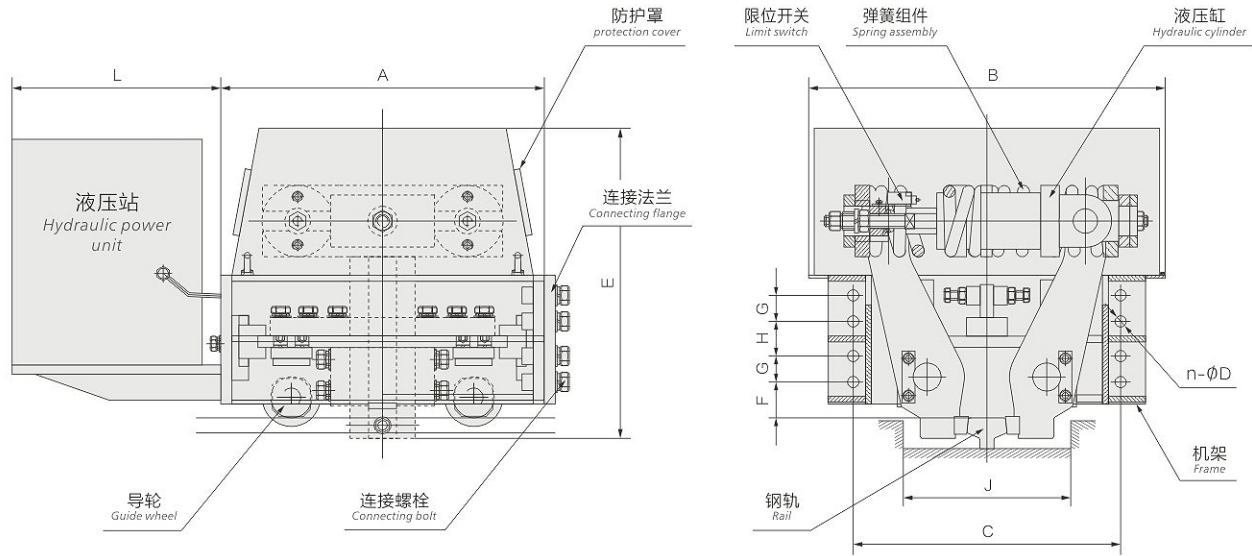
OPERATING CONDITION

- Ambient temperature: -20℃~+50℃
- Driving power supply of hydraulic station: generally used for three-phase AC380V, 50Hz If you need other voltages, please explain them in advance when ordering.
- Control power supply of hydraulic station: AC220V, 50Hz
- Limit switch power supply: 125V~250V
- Applicable working mode: intermittent, short-time action, low frequency.
- Special requirements can be discussed before production.

型号意义 Model Significance



安装及外形尺寸 Outline and installation dimension



YJGQ系列液压夹轨器技术参数及安装尺寸 Technical data and dimension

夹轨器型号 Rail clamp type	夹紧力 Clamping force (KN)	安装及外形尺寸 Dimensions (mm)										重量 Weight (kg)
		A	B	C	N-φD	E	F	G	H	J	L	
YJGQ-16	160	820	870	630	6-φ26	790	110	80	80	>310	650	1330
YJGQ-20	200											
YJGQ-25	250	930	890	720	8-φ30	835	97	70	93	>380	650	1330
YJGQ-31	315											
YJGQ-40	400	1100	1100	830	8-φ33	1050	125	100	100	>410	~705	1580
YJGQ-60	600	1250	1250		8-φ40	1100				>430		2117

注：夹轨器防滑力=2×夹紧力×μ（摩擦系数，μ一般取0.25）。 Note: Anti skid force of rail clamp=2x clamping force x μ (friction coefficient, μ Generally 0.25).

夹轨器与钢轨、液压站配套表 Matching table of rail clamp, steel rail and hydraulic station

夹轨器型号 Rail clamp type	YJGQ-16	YJGQ-20	YJGQ-25	YJGQ-31	YJGQ-40	YJGQ-60
钢轨型号 Rail model	QU100、QU80、QU70、QU150		QU80、QU100、QU120			QU120
匹配液压站 Hydraulic power unit	YZ1-20-10	YZ1-10-10	YZ1-20-10			YZ1-20-10

注：具体型号，结构及外形尺寸保留更改的权利。 Note: The size of the specific type and structure should be retained.

YLBZ Series
hydraulic wheel
brakes

YLBZ系列
液压轮边制动器



YLBZ Series

应用 Application

- YLBZ系列液压式轮边制动器，主要作为港口、码头等露天使用的大型起重机及港口装卸机械工作状态下的防风制动和非工作状态下的辅助防风制动。采用轮边制动器进行防风制动，是目前一种效果比较理想的防风措施，正在大量推广应用。如在驱动轮高速轴上同时采用防风制动器，效果会更好且比较经济。

APPLICATION

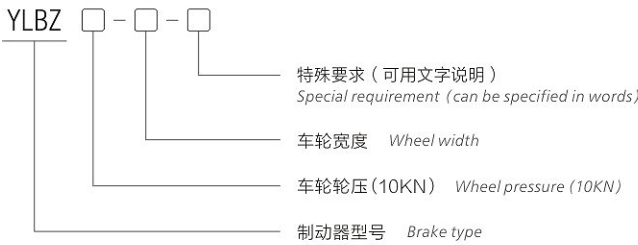
- YLBZ series hydraulic wheel brake is mainly used for wind proof braking under working conditions and auxiliary wind proof braking under non working conditions of large cranes and port handling machinery used in open air such as ports, wharfs and so on. The use of wheel brake for wind proof braking is an ideal wind proof measure, which is being widely used. If the wind proof brake is used on the high-speed shaft of the driving wheel at the same time, the effect will be better and more economical.

主要特点 Main Feature

- 结构紧凑，造型美观。
- 碟簧液压缸性能优良，严格按照GB/T15622-1995设计、生产、制造。
- 常闭式设计，液压站驱动施力于碟形弹簧而释放，安全可靠。
- 设有释放限位开关，可进行联锁保护。
- 无石棉摩擦片性能稳定，安装结构形式新颖独特，更换方便。
- 制动块动作采用连杆结构，确保制动器松闸时摩擦片平面各处与轮端面间隙均等。消除以往松闸状态摩擦片浮贴制动轮的现象。
- 防腐型设计，全部紧固件和销轴为不锈钢制造。

- Compact structure and beautiful appearance.
- The disc spring hydraulic cylinder has excellent performance and is designed, produced and manufactured in strict accordance with GB/T15622-1995 manufacture.
- Normally closed design, the hydraulic station drives the disc spring to release, which is safe and reliable.
- It is equipped with release limit switch for interlocking protection.
- The asbestos free friction plate has stable performance, novel and unique installation structure and convenient replacement.
- The action of the brake pad adopts the connecting rod structure to ensure that the clearance between the friction plate plane and the wheel end face is equal when the brake is released. The phenomenon that the friction plate floats against the brake wheel in the past brake release state is eliminated.
- Anti corrosion design, all fasteners and pins are made of stainless steel.

型号意义 Model Significance



- 例：如额定夹紧力为50KN，轮宽160，左式装配，其订货标记为YLBZ25-160-左；右式装配为YLBZ25-160-右。
For example: if the rated clamping force is 50KN and the wheel width is 160, the order mark is YLBZ25-160-left; The right type assembly is YLBZ25-160-right.

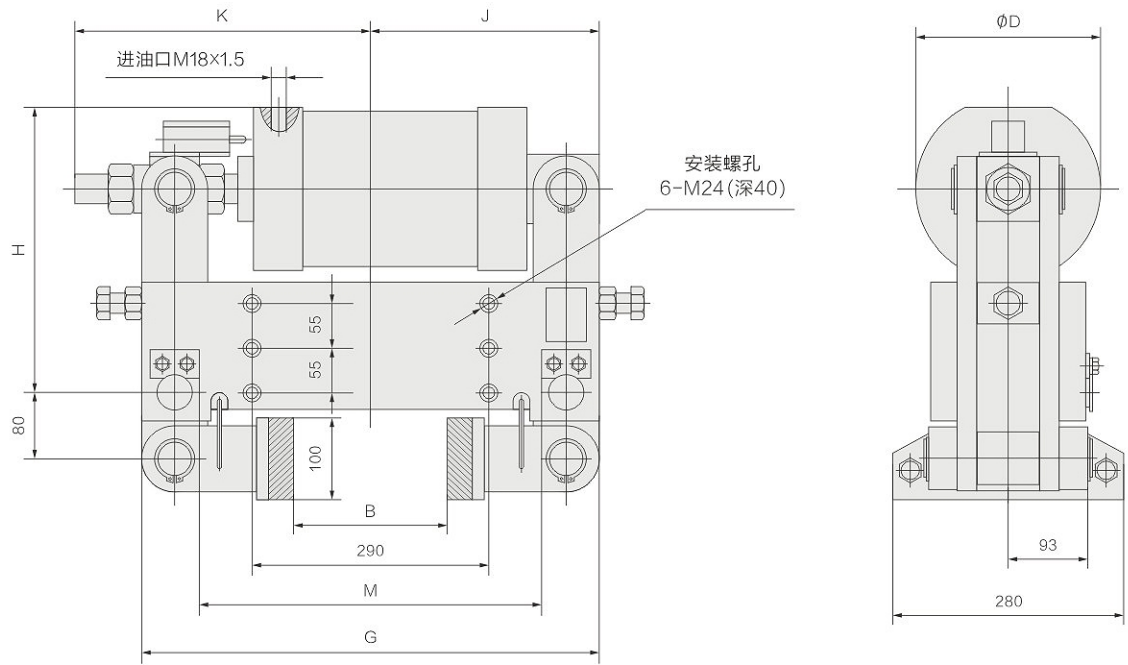
使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 工作压力：8Mpa
- 电源电压：三相、交流AC380V、50Hz
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。
- 有特殊要求时，在订货时协商确定。

OPERATING CONDITION

- Ambient temperature: -20℃~+50℃
- Working pressure: 8Mpa
- Power supply voltage: three phase, AC 380V, 50Hz
- Outdoor rain and snow erosion or corrosive gases and media, anti-corrosion products shall be used.
- Special requirements can be discussed before production.

安装及外形尺寸 Outline and installation dimension



- 注：该安装图为右式，左式与右式完全对称。
Note: the installation drawing is right type, and the left type and right type are completely symmetrical.

YLBZ系列液压轮边制动器技术参数及安装尺寸 Technical data and dimension

制动器型号 Brake type	额定夹紧力 Rated clamping force (KN)	额定制动力 Rated brake force (KN)	安装及外形尺寸 Dimensions (mm)							重量 Weight (kg)	匹配液压站 Matching hydraulic power unit
			B	K	J	H	D	G	M		
YLBZ25-160	50	42	160	300	250	310	190	500	370	145	YZ2-10-20
YLBZ40-150	73	63	150	300	250	325	190	500	370	150	YZ2-10-20
YLBZ40-160			160								
YLBZ40-180			180								
YLBZ40-200			200								
YLBZ63-180	114	96	180	300	250	325	200	510	370	155	YZ2-10-20
YLBZ63-200			200								
YLBZ63-210			210								
YLBZ100-200	180	150	200	360	280	350	225	560	420	160	YZ2-10-20

- 注：具体型号，结构及外形尺寸保留更改的权利。 Note: The size of the specific type and structure should be retained.