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Safety brake Jingu control
安全制动·金箍掌控



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As the company persists in the principle of continuous improvement in production and development, the specifications of the product may be changed without notice.

图例 起重制动器 / 132118170353

安全化 / 高效化 / 系统化



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Committed to Safe Braking and Powerful Industrial Countries

工业制动器
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安全高效的工业制动系统提供商

河南金箍制动器股份有限公司
HENAN JINGU BRAKE CO., LTD.

中国·长垣
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YFX系列电力液压防风铁楔制动器

YFX SERIES ELECTRO-HYRAULIC STORM BRAKING WEDGES BRAKES

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 windproof iron wedge brake is mainly used for windproof 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 windproof cable to take safe windproof braking measures for crane under non working state.

主要特点 Main Feature

- 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模块不能及时复位。
- 楔块经特殊工艺处理，摩擦系数高，防腐性能好。

MAIN FEATURE

- All hinge points are fitted with self-lubrication bearings, with high transmission efficiency, agile movement and long service life.
- With manual release function, easy to maintain.
- The thrusters with spring resetting function avoiding the following situation: the wedge can't reset in time because the thruster's un-agle after power went off.
- The wedge is treated with special technique. It has high friction coefficient and excellent anti-corrosion performance.

型号意义 Model Significance



YFX系列 Series

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：3相、交流380V、50Hz
- 工作制：间歇性（S3~60%、1200次/小时）和连续（S1）
- 有特殊要求时，在订货时协商确定。

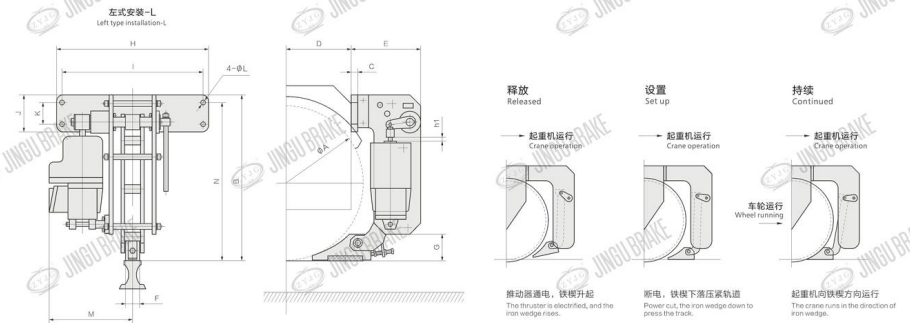
OPERATING CONDITION

- Ambient temperature: -20℃ ~ +50℃
- Relative humidity: air relative humidity is not more than 90%
- Voltages: AC 3 phase 380V 50Hz
- Operating duty: intermittent (S3~60%, 1200 times per hour) and continuous (S1)
- Special requirements can be discussed before production.

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系列电力液压防风铁楔制动器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF YFX SERIES STORM BRAKES

制动型号号 Brake type	推动器型号号 Thruster type	安装及外形尺寸 Dimension (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			180	310	60	55	480	430	165	100	18	360	607	8	129
YFX-400/80		400	640	18	240										605		
YFX-500/80	Ed80/6ws	500														8	129
YFX-550/80		550	640	18	240	310	60	55	480	430	165	100	18	360	605		
YFX-600/80	Ed80/6ws	600														8	146
YFX-630/80		630	760	20	260	315	60	120	650	600	170	100	22	360	725		
YFX-700/80	Ed80/6ws	700														8	149
YFX-710/80		710	760	20	300	315	70	120	650	600	170	100	22	360	725		
YFX-800/80	Ed80/6ws	800	950	25	300	315	70	120	700	650	170	100	22	395	915	8	164

- 注：电力液压推动器接线盒可旋转90°安装，并可根据用户需要决定安装在何侧。
Note: Electro-hydraulic thruster wiring box can be installed turning 90 degrees, and also can be installed in specified position according to customer's requirement.
- 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。
The electric hydraulic windbreak 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.

YLBZ系列液压轮边制动器

YLBZ SERIES HYDRAULIC WHEEL BRAKES

应用 Application

- YLBZ系列液压轮边制动器，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。

APPLICATION

- YLBZ series hydraulic wheel brake is mainly used for wind proof braking under working conditions and auxiliary windproof braking under non working conditions of large cranes and port handling machinery used in open air such as ports, wharfs and so on.

主要特点 Main Feature

- 碟簧液压缸性能优良，严格按照GB/T15622-2005设计、生产、制造。
- 常闭式设计，液压站驱动能力于碟形弹簧而释放，安全可靠。
- 制动块动作采用连杆结构，确保制动器松开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，防腐性好。

MAIN FEATURE

- Disc spring hydraulic cylinder has excellent performance and is designed, produced and manufactured in strict accordance with GB/T15622-2005.
- Normally closed design, the hydraulic station drives the disc spring to release, which is safe and reliable.
- The action of the brake pad adopts the connecting rod structure to ensure that the clearance between the friction plate plane and the wheel face is equal when the brake is released. Eliminate the phenomenon that the friction plate is attached to the brake wheel in the previous brake release state.
- Anti-corrosion design. All fasteners and spindles are made of stainless steel, with good anti-corrosion performance.

型号意义 Model Significance



YLBZ系列 Series

使用条件 Operating Condition

- 环境温度：-20℃ ~ +50℃
- 工作压力：8Mpa
- 电源电压：3相、交流380V、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。

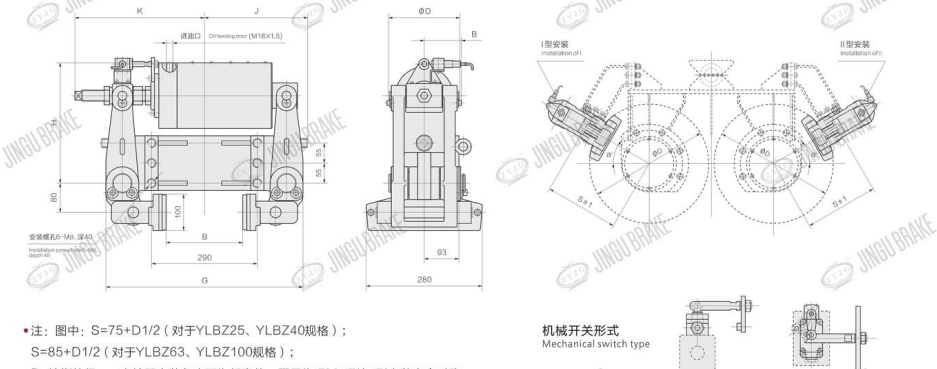
OPERATING CONDITION

- Ambient temperature: -20℃ ~ +50℃
- Working pressure: 8Mpa
- Voltages: AC 3 phase 380V 50Hz
- Outdoor rain and snow erosion or corrosive gases and media shall be anti-corrosion products.
- Special requirements can be discussed before production.

- 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.

安装及外形尺寸 Outline And Installation Dimension



- 注：图中：S=75+D1/2（对于YLBZ25、YLBZ40规格）；
S=85+D1/2（对于YLBZ63、YLBZ100规格）；
D-轮缘外径 a-夹轮器安装角度可为任意值。图示为I型、II型与I型安装完全对称。

YLBZ系列液压轮边制动器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF YLBZ SERIES HYDRAULIC WHEEL BRAKES

制动器型号 Brake type	额定夹紧力 (KN) Rated clamping force	额定制动力 (KN) Rated power	安装及外形尺寸 Dimensions (mm)							重量 Weight (kg)
			B	K	J	H	D	G	d	
YLBZ 25-160	50	42	160	300	250	310	190	500	20	145
YLBZ 40-150			150							
YLBZ 40-160			160							
YLBZ 40-180			180							
YLBZ 40-200	73	63	200	300	250	325	190	500	20	150
YLBZ 63-180			180							
YLBZ 63-200			200							
YLBZ 63-210			210							
YLBZ 100-200	114	96	200	300	250	325	200	510	24	155
			210							
YLBZ 100-200	180	150	200	360	280	350	225	560	24	160

- 注：当轮宽尺寸B不在表中范围值内时，可与我们技术部门取得联系。
Note: Please contact our technical department, when wheel width B isn't within the range specified in above table.

- 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系列液压夹轨器

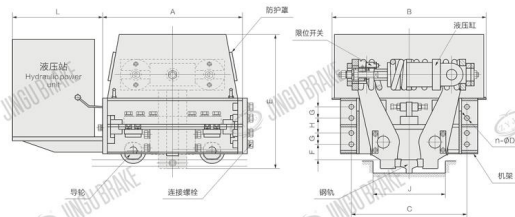
应用 Application

- **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

- Hydraulic rail clamping device is a safety device to prevent free movement of track-type running machinery along the track direction. It is mainly used for wind-proof braking in working and non-working conditions of outdoor lifting machinery, wind-proof braking of outdoor crane self-lifting trolley and positioning braking of unloading truck of belt conveyor.

安装及外形尺寸 Outline And Installation Dimension



YJGQ系列夹轨器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF YJGQ SERIES RAIL CLAMP

夹轨器型号 Rail clamp type	夹轨力 KN Clamping force	安装及外形尺寸 Dimensions (mm)										重量 Weight (kg)	钢轨型号 Rail type
		A	B	C	N Φ -D	E	F	G	H	J	L		
YJQG-16	160												
YJQG-20	200	820	870	630	8- Φ 26	790	110	80	80	> Φ 10	650	1330	P50, QU70 QU80, QU100
YJQG-25	250												
YJQG-31	315	930	890	720	8- Φ 30	835	97	70	93	> Φ 30	650	1330	QU80, QU100, QU120
YJQG-40	400	1100	1100		8- Φ 33	1050				> Φ 40		1508	QU80, QU100, QU120
YJQG-60	600	1250	1250	830	8- Φ 40	1100	125	100	100	> Φ 43	710	2117	QU120

*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.

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YJGQ系列 Series

使用条件 Operating Condition

- 环境温度: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 液压站驱动电源: 3相、交流380V、50Hz
- 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: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- Hydraulic power unit drive power supply: three-phase AC380V 50Hz
- Operation mode: intermittent, short-term and low frequency.
- Special requirements can be discussed before production.

XJYT系列液压夹轨器

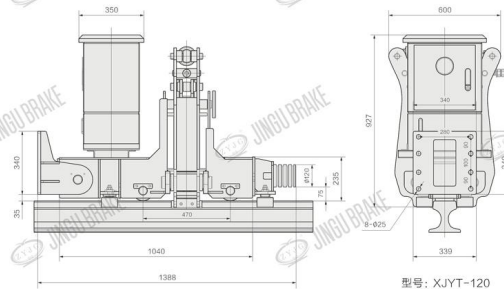
应用 Application

- 夹轨器适用于室外各种轨道起重机械工作状态下的防风及非工作状态下的辅助防风、室外起重机自行式起重小车的防风制动或防止摆动以及皮带运输机卸料车的定位制动等。

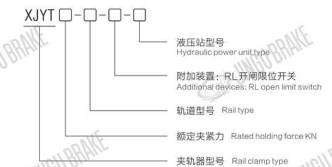
APPLICATION

- The rail clamping device is suitable for wind proof in working state and auxiliary wind proof in non-working state of various outdoor track lifting machinery, wind proof braking of outdoor crane self-propelled lifting trolley or for preventing swing, positioning braking of unloading truck of belt conveyor, etc.

安装及外形尺寸 Outline And Installation Dimension



型号意义 Model Significance



- XJYT-250-P50-RL: 表示额定防滑力为250kN, 额定夹紧力为500kN, 适用轨道为P50。



XJYT系列 Series

XJYT系列夹轨器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF XJYT SERIES RAIL CLAMP

夹轨器型号 Rail clamp type	夹紧力 Clamping force (kN)	防滑力 Anti-slip force (kN)	行程 Clearance (mm)	电机功率 Motor power (kW)	电机电源 power supply of motor (Hz)	额定工作压力 Rated pressure (Mpa)	重量 Weight (kg)	钢轨型号 Rail type
XJYT-120	250	120	5	2.2	380V、50Hz	14	350	P38、P43、P50、QU70 QU80、P100、QU120等
XJYT-250	500	250	5	3	380V、50Hz	14	600	

•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 models in the table are recommended. If you want to match other rail models, please consult and confirm when ordering.

JINGU BRAKES / P088