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Safety brake Jingu control
安全制动·金箍掌控



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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.

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安全制动·金箍掌控

DISC BRAKES 盘式制动器

YPZ₂系列电力液压臂盘式制动器

YPZ₂ SERIES ELECTRO-HYDRAULIC DISC BRAKES

应用 Application

- 电力液压臂盘式制动器是一种高性能、多功能的先进产品。由于具有瓦块退距自动均等，衬垫磨损、自动补偿等先进功能，使用过程中维护非常便捷。通过增设各种限位开关，可给主机PLC提供所需的联锁保护信号。广泛适用于现代化的大型专用装卸机械、冶金设备、起重运输机械、矿山设备及工程机械中各种机构的减速和维持（停车）制动。

主要特点 Main Feature

- 无石棉制动衬垫为插装式，更换方便快捷。
- 联锁退距均等装置和瓦块自动限位装置，使用过程中可始终保持两侧瓦块退距均等且无需调整，完全避免制动衬垫浮贴制动盘的现象。
- 主要摆动铰点均设有自润滑轴承，使用过程中无需润滑；传动效率高，动作灵敏，制动器闭合（上闸）时间为0.25~0.4s。
- 无级衬垫磨损自动补偿装置，可使瓦块退距和制动力矩在使用过程中保持恒定，免去经常调整的麻烦。
- 制动弹簧设在方管内布置并设有标尺，保护弹簧不受损坏和污染。
- 采用Ed系列推动器配套，动作灵敏，寿命长。
- 常闭式设计，（断电）弹簧制动，（通电）推动器释放。

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（根据需要也可生产60Hz或不同的电压，请订货时说明）
- 工作制：间歇性（S3-60%，1200次/小时）和连续（S1）
- 使用地点的海拔高度符合GB755-2019。当低于-20℃时，推动器工作油改用YH-10航空液压油或按要求带加热器，详情参考Ed推动器样本。
- 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。

APPLICATION

- Electro-hydraulic disc brakes are advanced products with high performance and multiple functions. They are maintenance-friendly due to advanced functions applied on them such as automatic shoe clearance balancing and wear self-compensation device. Various limit switches can provide interlocking protection signal to main machinery PLC. They fit very well for decelerating and stop/braking large-scale modern machines such as loading and unloading machinery, lifting and transporting machinery, metallurgy equipment and mining equipment.

MAIN FEATURE

- Brake linings are plug-in style, which are easy to replace.
- Interlocking shoes clearance balancing device and shoe auto-aligning device, constantly equalize the clearance of brake shoes on both sides and no need to adjust, thus completely avoid one side of brake lining sticking to brake disc.
- Self-lubricating bearings are equipped at main hinge points, which bring high efficiency of transmission, long performance life and unnecessary to lubricate during the course of operation. The closing time is short (only 0.25-0.4s).
- Wear-self-compensation devices can realize self-compensation of shoes clearance and relatively constant brake torque. It avoids the trouble of adjusting.
- Enclosed spring tube protects spring from damage and contamination.
- The Ed series thrusters are characterized by flexible action and long operating life.
- Brake closes in case of power failure (Fail-Safe Principle). Braking by spring power. Lifting by thruster.

OPERATING CONDITION

- Ambient temperature: -20℃~+50℃
- Relative humidity: air relative humidity is not more than 90%
- Voltages: AC 3 phase 380V, 50Hz. Also produces 60Hz or different voltages as needed, please indicate when ordering.
- Operating duty: intermittent (S3-60%, 1200 times per hour) and continuous (S1).
- Altitude in accordance with GB755-2019 of the place of use. When lower than -20℃, promoting the YH-10 aviation hydraulic oil instead of oil or belt as required and heat exchanger, for details refer to the Ed driver samples.
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.
- Special requirements can be discussed before production.



DISC BRAKES 盘式制动器

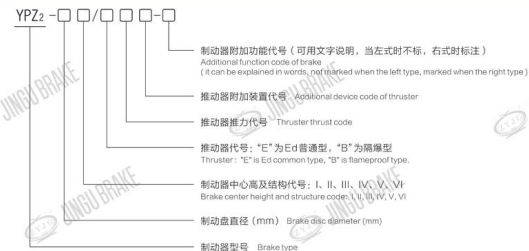
符合标准 Standards Compliant

- YPZ₂I、II、III制动力矩参数符合德国DIN15433标准，YPZ₂IV、V、VI符合德国DIN15433标准和JB/T7020-2006标准。
- 配备符合DIN15430标准的Ed系列电力液压推动器。

STANDARDS COMPLIANT

- The braking torque parameters of YPZ₂I, II and III conform to the German standard DIN15433, while those of YPZ₂IV, V and VI conform to the German standard DIN15433 and JB/T7020-2006.
- They are equipped with Ed series thrusters which comply with DIN15430 standard.

型号意义 Model Significance



订货示例 Order Example

- YPZ₂-630×30II/E121-L-MSK1

例：如盘直径为630mm，盘厚30mm，中心高280mm，带磨损自动补偿装置，开闸显示行程开关，手动装置，右式，推动器Ed121/6，其订货标记为：YPZ₂-630II/E121S-MK1S（右）。
Example: disc diameter is 630mm, the disc thickness is 30mm, the center high 280mm, with automatic wear compensation device, gate opening display limit switch, manual installation, the right type, driver Ed 121/6, marked as: YPZ₂-630II/E121S-MK1S(right).



YPZ₂I、II、III系列 Series

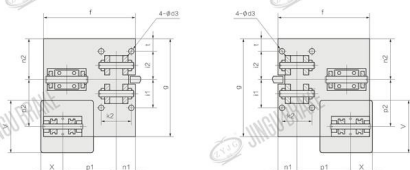
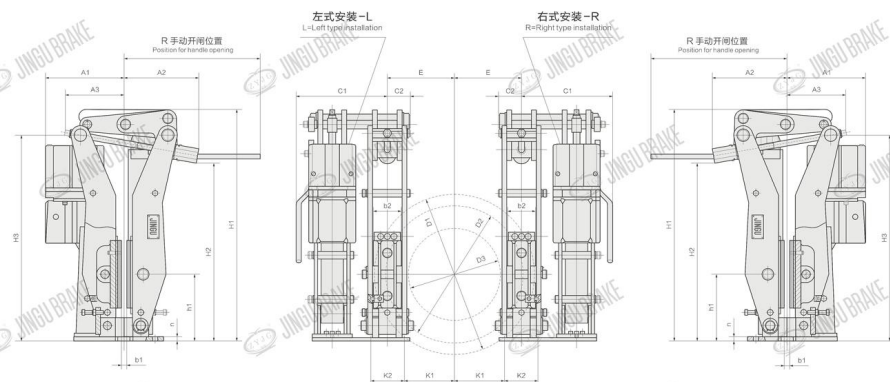


YPZ₂IV、V、VI系列 Series

YPZ₂I、II、III系列电力液压臂盘式制动器

YPZ₂I, II, III SERIES ELECTRO-HYDRAULIC DISC BRAKES

安装及外形尺寸 Outline And Installation Dimension



制動器附加功能表 BRAKE ADDITIONAL MENU

附加功能代号 Function code	表示意义 Significance of
M	衬垫磨损补偿装置 Cushioning wear compensation device
K1	开闸限位行程开关 Gate opening limit switch
K2	闭闸限位行程开关 Closed-gate limit switch
K3	衬垫磨损极限限位开关 Pad wear limit switch
S	手动装置 Manual installation

YPZ2 I 系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YPZ2 I SERIES DISC BRAKES

表一

推动型号 Thruster type		安装及外形尺寸 Dimensions (mm)																									
		t	H1	H2	H3	b2	d3	f	g	h1	i1	i2	k2	A2	A3	n1	n2	p1	P2	q	n	C2	R	A1	C1	X	V
Eo23/5	20	710	515	630	70	18	310	300	230	180	80	120	230	235	80	100	175	160	20	15	75	460	280	297	80	20	19
Eo30/5		710	515	630	70	18	310	300	230	180	80	120	230	235	80	100	175	160	20	15	75	460	277	297	80	19	
Eo50/6		710	515	630	70	18	310	300	230	180	80	120	230	235	80	100	175	160	20	15	75	460	317	297	97	25	
Eo80/6		710	515	630	70	18	310	300	230	180	80	120	230	235	80	100	175	160	20	15	75	460	317	297	97	25	
与制动盘有关的尺寸 Relative dimensions of brake disc		技术参数 Technical data																									
制盘直径 D1 Disc diameter		b1	D2	D3	E	K1	S	配套制盘 Thruster					制盘直径 Disc diameter D1 (mm)					整机重量 Weight (kg)									
								推动型号 Thruster type	功率 Power (W)	额定电流 Rated current (A)	315	355	400	450	500												
315	20	30	235	120	118	58	0.9±0.2	Eo23/5	165	0.52	270	320	—	—	—	89											
355			275	160	138	78		Eo30/5	200	0.46	380	440	520	—	—	95											
400			320	205	160	100		Eo50/6	210	0.48	645	670	790	910	1000	102											
450			370	255	185	125		Eo80/6	330	1.42	1030	1150	1350	1560	1750	100											
500			420	305	210	150																					

YZPZ₂ II 系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YPZ₂ II SERIES DISC BRAKES

表二

推动型号 Thruster type		安装及外形尺寸 Dimensions (mm)																								
		H1	H2	H3	b2	d3	f	g	h1	n	i2	k2	A2	A3	n1	n2	p1	p2	q	n	C2	R	A1	C1	X	V
E8056	35	985	740	870	120	22	375	375	280	130	130	140	275	270	94	165	220	154	24	15	110	730	311	360	97	25
E1216		985	740	870	120	22	375	375	280	130	130	140	275	270	94	165	220	154	24	15	110	730	302	360	120	26
E2016		985	740	870	120	22	375	375	280	130	130	140	275	270	94	165	220	154	24	15	110	730	302	360	120	26
与制动盘有关的尺寸 Relative dimensions of brake disc		技术参数 Technical data																								
制动盘径 D1 Disc diameter	b1	D2	D3	E	K1	S	配置推动器 Thruster										制动盘直径 Disc diameter D1 (mm)					盘机重量 Weight (kg)				
							推动器型号 Thruster type	功率 Power (W)	额定电流 Rated current (A)		450	500	560	630	710											
450	30	350	180	175	105		E8056	210	0.48	1025	1175	1350	—	—	—	178										
500		400	230	200	130		E806	330	1.42	1720	1965	2260	2605	—	—	179										
560		460	290	230	160	0.9 ± 0.2	E1216	330	1.44	2700	3085	3550	4090	4665	194											
630		530	360	265	195		E2016	450	1.45	4195	4790	5510	6350	7130	194											
710		610	440	305	235																					

YPZ₂ III 系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YPZ₂ III SERIES DISC BRAKES

表三

推动型号 Thrust type		安装及外形尺寸 Dimensions (mm)																										
		t	H1	H2	H3	b2	d3	f	g	h1	i1	i2	k2	A2	A3	n1	n2	p1	p2	q	n	C2	R	A1	C1	X	V	
Ed121/e	30	35	1170	910	1045	120	27	415	460	370	180	180	160	305	310	110	215	225	206	30	20	120	735	354	394	120	261	
Ed201/e																												
Ed301/e																												
与制动盘有关的尺寸 Relative dimensions of brake disc		技术参数 Technical data																										
制动盘直径 D1 Disc diameter	b1	D2	D3	E	K1	S	配置制动器 Thrust			制动盘直径 Disc diameter D1 (mm)						额定重量 Weight (kg)												
推动型号 Thrust type							功率 Power (W)	额定电流 Rated current (A)	030	710	800	900	1000	1250														
630	30	500	310	250	170	1.0 ± 0.3																						
710		580	390	290	210																							
800		670	480	335	255																							
900		770	580	335	305																							
1000		870	680	435	355																							
1250		1120	930	560	480																							
										最大制动力矩 Max. Brake torque (Nm) μ=0.36																		
Ed121/e		330	1.44	3750	4500	5000	5600								294													
Ed201/e		450	1.45	6305	7315	8450	9710	10970							294													
Ed301/e		550	1.46	9170	10640	12290	14120	15960	20540						295													
*注：D2—理论摩擦直径；D3—允许最大的联轴节外径；S—每侧瓦块间距。																												

•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

安装及外形尺寸 Outline And Installation Dimension



附加功能代号 Function code	表示意义 Significance of
M	衬垫磨损补偿装置 Cushioning wear compensation device
K1	开闸限位行程开关 Gate opening limit switch
K2	闭闸限位行程开关 Closed-gate limit switch
K3	衬垫磨损极限限位开关 Pad wear limit switch
S	手动装置 Manual installation

YPZ₂ IV 系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YPZ₂ IV SERIES DISC BRAKES

表四

推动器型号 Thrustor type		安装及外形尺寸 Dimensions (mm)																								
		H1	H2	H3	H4	b2	d3	f	g	h1	i1	i2	k2	A1	A2	n1	n2	p1	p2	v	q	n	C2	C1	X	t
Ed23/5		612	400	340	500	56	14	230	270	160	80	150	100	208	198	52	40	133	130	200 197	14	15	60	215	80	20
Ed30/5		612	400	340	500	56	14	230	270	160	80	150	100	208	198	52	40	133	130	200 197	14	15	60	215	80	20
与制动盘有关的尺寸 Relative dimensions of brake disc		技术参数 Technical data																								
制动力 D1 D1 (kN/mm²)		配置制动器 Thruster													制动力直径 Disc diameter D1 (mm)					电机重量 Weight (kg)						
制动力类型 Thrustor type	功率 Power (kW)	额定电流 Rated current (A)	250	280	315	355	400	450	500	最大制动力矩 Max. Brake torque (Nm) p=0.36											71					
Ed 23/5	165	0.52	200	230	260	300	345	395	445											75						
Ed 30/5	200	0.46	280	310	355	410	470	540	610																	
* 注：D2-理论摩擦直径；D3-允许最大的联轴节外径；S-每圈瓦块退距。 Note: D2-Theoretical friction diameter. D3-Max. allowable coupling or hub diameter. S-Brake clearance.																										

YPZ₂V系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YPZ₂V SERIES DISC BRAKES

表五

制动型号号		安装及外形尺寸 Dimensions (mm)																								
		H1	H2	H3	H4	b2	d3	f	g	h1	l	i2	k2	A1	A2	n1	n2	p1	p2	v	q	n	C2	C1	X	t
Ed50/6	Ed80/6	1100	537	474	645	75	18	330	360	230	145	145	130	275	228	90	110	165	177	254	25	18	80	260	95	35
与制动有关的尺寸 Relative dimensions of brake disc																										
制动盘直径 D1 Disc diameter		b1	D2	D3	E	K1	S	配套制动器 Thruster								制动盘直径 Disc diameter D1 (mm)								轴孔直径 Hole pitch		
								制动器型号 Thruster type	功率 Power (W)	额定电流 Rated current (A)	355	400	450	500	560	630	最大制动力矩 Max. Brake torque (Nm)	μ=0.36								
355	20		200	110	98	61	0.9±0.2	Ed 50/6	210	0.48	935	1684						1255	1425	1638						
400			230	140	113	76		Ed 80/6	330	1.42	—	1600						1850	2100	2400	2750	104				
450			260	170	130	93																				
500			300	210	150	113																				
560			345	255	173	135																				
630			395	305	197	160																				

* 注: D2-理论摩擦直径; D3-允许最大的联轴器外径; S-每侧瓦块间距;
Note: D2- Theoretical friction diameter; D3- Max. allowable coupling or hub diameter. S- Brake clearance

YFZ VI 系列臂盘式制动器尺寸和技术参数 DIMENSIONS AND TECHNICAL DATA OF YFZ VI SERIES DISC BRAKES

表六

推动型号号 Thrust type		安装及外形尺寸 Dimensions (mm)																									
		H1	H2	H3	H4	b2	d3	f	g	h1	i1	i2	k2	A1	A2	n1	n2	p1	p2	V	q	n	C2	C1	X	t	
Ed121/6		1500	699	636	835	108	27	390	430	280	180	180	160	285	265	102	140	210	195	260	22	20	108	330	120	35	
Ed201/6																											
Ed301/6																											
与制动盘有关的尺寸 Relative dimensions of brake disc																											
		技术参数 Technical data																									
制动盘直径 D1 Disc diameter		b1	D2	D3	E	K1	S	配套推动器 Thruster			制动盘直径 Disc diameter D1 (mm)											额定重量 Weight (kg)					
								推动器型号 Thrust type	功率 Power (W)	额定电流 Rated current (A)	最大制动力矩 Max. Brake torque (Nm) $\mu=0.35$																
450	30	350	170	175	95	0.9±0.2	Ed121/6	330	1.44	2700	3100	3650	4100	4700	5400	—	—	—	—	—	—	—	—	—	—	—	220
500		460	300	230	150		Ed201/6	450	1.45	4300	5000	5750	6600	7600	8800	—	—	—	—	—	—	—	—	—	—	220	
630		530	370	265	185		Ed301/6	550	1.46	—	—	—	9700	11200	12800	14700	16500	18150	220								
710		610	450	305	225																						
800		700	540	350	270																						
900		800	640	400	320																						
1000		900	740	450	370																						
1100	1000	840	500	420																							

*注：D2-理论摩擦直径；D3-允许最大的联轴节外径；S-每侧瓦块间距。
Note: D2-Theoretical friction diameter; D3-Max. allowable coupling or hub diameter; S-Brake clearance.

QP/CQP系列气动钳盘式制动器

QP/CQP SERIES PNEUMATIC DISC BRAKES

应用 Application

- QP/CQP系列气动钳盘式制动器，广泛用于起重、运输、冶金、矿山、港口、码头、建筑等机械中各种机构的停车制动和减速制动。

APPLICATION

- QP/QCP series pneumatic caliper disc brakes are widely used for parking braking and deceleration braking of various mechanisms in hoisting, transportation, metallurgy, mining, port, wharf, construction and other machinery.

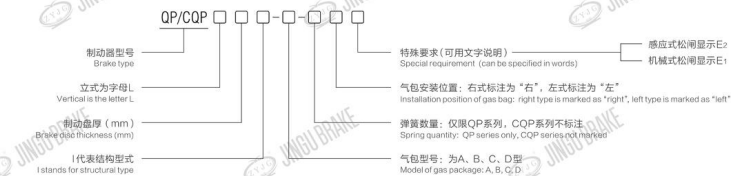
使用条件 Operating Condition

- 环境温度：-5℃~+40℃
- 工作气压：QP系列为5~7bar，CQP系列为≤7bar。
- 户外雨雪侵蚀或有腐蚀性气体和介质，应采用防腐型产品。
- 空气源不应有油、水及其它杂质。

OPERATING CONDITION

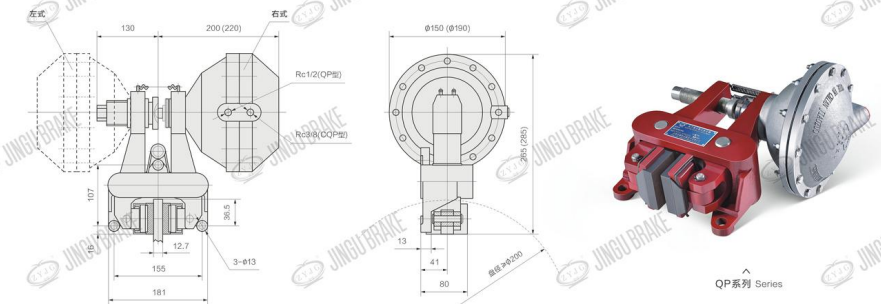
- Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Working pressure: QP series is 5~7bar, CQP series is $\leq 7\text{bar}$
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.
- The air source should be free of oil, water and other impurities.

型号意义 Model Significance



- 例：选用QP12.7型，A型气包，弹簧为六根，气包左式安装，可写为QP12.7-A-6左。 选用QP12.7A型，B型气包，带机械式松闸显示，气包右式安装，可写为QPL12.7-A-B-E右。
For example, QP12.7 and A-type air bags are selected. There are six springs. The air bag is installed left, which can be written as QP12.7-A-6left.
QP12.7A and type B air bags are selected, with mechanical brake release display. The air bag is installed on the right, which can be written as QPL12.7-A-B-E right.

安装及外形尺寸 Outline And Installation Dimension



- 注: 括号内为QP(CQP)12.7-A的尺寸。
Note: the dimensions in brackets are QP(CQP)12.7-A.

QP12.7 型气动盘式制动器技术参数 TECHNICAL DATA OF QP12.7 TYPE PNEUMATIC DISC BRAKES

制動器型號 Brake type	額定制動力 (N) (八根彈簧) Rated braking force (N) (Eight springs)	制動盤有效半徑 (m) Effective radius of brake disc	額定制動力矩 (Nm) Rated braking torque	工作氣體容量 (cm³) Working gas capacity	總氣體容量 (cm³) Total gas capacity	重量 (kg) Weight (kg)
QP12.7-A	6400	制動盤半徑 - 0.03 Brake disc radius - 0.03	額定制動力 X 有效半徑 Rated power X Effective radius	273	553	24
QP12.7-B	4800			140	293	20

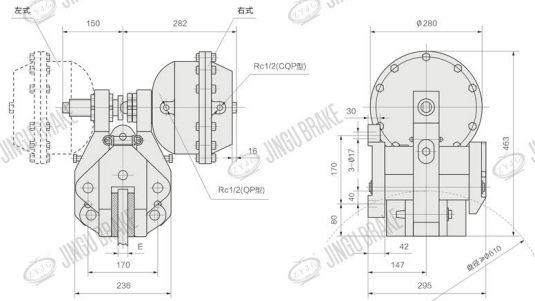
- *注: 具体型号、结构及外形尺寸保留更改的权利。 Note: The size of the specific type and structure should be retained.

CQP12.7 型气动盘式制动器技术参数 TECHNICAL DATA OF CQP12.7 TYPE PNEUMATIC DISC BRAKES

制動器型號 Brake type	額定制動力 (N) (八根彈簧) Rated braking force (N) (Eight springs)	制動盤有效半徑 (m) Effective radius of brake disc	額定制動力矩 (Nm) Rated braking torque	工作氣體容積 (cm³) Working gas capacity	總氣體容積 (cm³) Total gas capacity	重量 Weight (kg)
CQP12.7-A	1788×工作气压	制動盤有效半徑 - 0.03 Brake disc radius - 0.03	額定制動力 X 有效半徑 Rated power X Effective radius	273	553	23
CQP12.7-B	1055×工作气压			240	293	19

- 注: d2-最大连接外径。 Notes: Max. coupling hub diameter.
- 制动力矩计算方法: $M=F \times [制动力盘半径] (m) - 0.03] N \cdot m$ Dynamic torque calculating: $M=F \times [disc \text{ radius } (in \text{ m}) - 0.03] N \cdot m$
- 提示: 表中所谓制动力和制动力矩, 对于新制动衬垫, 只有在衬垫与制动盘良好磨合 (贴合面积达30%以上) 后方可达到。
Warning: As for new braking lining, the braking torque listed in this above table can be reached only after the lining well grinding on brake disc (sticking area is over 30%).

安装及外形尺寸 Outline And Installation Dimension



- 注：气包带自动补偿机构，制动衬磨损后无需人工调整，方便省时。

Note: the air bag is equipped with automatic compensation mechanism, and there is no need for manual adjustment after the brake pad is worn, which is convenient and time-saving.

QP30(25.4)型气动盘式制动器技术参数 TECHNICAL DATA OF QP30(25.4) TYPE PNEUMATIC DISC BRAKES

制动器型号 Brake type	E	额定制动力 (N) (12根弹簧) Rated braking force (N) (12 springs)	制动盘有效半径 (m) Effective radius of brake disc	额定制动力矩 (Nm) Rated braking torque	工作气体容量 (cm ³) Working gas capacity	总气体容量 (cm ³) Total gas capacity	重量 Weight (kg)
QP30-D	30	32800	制动盘半径-0.065 Brake disc radius-0.065	额定制动力X有效半径 Rated power X Effective radius	1400	3000	70
QP25.4-D	25.4		制动盘半径-0.065 Brake disc radius-0.065	额定制动力X有效半径 Rated power X Effective radius			

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

CQP30(25.4)型气动盘式制动器技术参数 TECHNICAL DATA OF CQP30(25.4) TYPE PNEUMATIC DISC BRAKES

制动器型号 Brake type	E	额定制动力 (N) (12根弹簧) Rated braking force (N) (12 springs)	制动盘有效半径 (m) Effective radius of brake disc	额定制动力矩 (Nm) Rated braking torque	工作气体容量 (cm ³) Working gas capacity	总气体容量 (cm ³) Total gas capacity	重量 Weight (kg)
CQP30-D	30	6097 X 工作压力	制动盘半径-0.065 Brake disc radius-0.065	额定制动力X有效半径 Rated power X Effective radius	1400	3000	68
CQP25.4-D	25.4		制动盘半径-0.065 Brake disc radius-0.065	额定制动力X有效半径 Rated power X Effective radius			

- 注：d2-最大连接孔径。 Notes: Max. coupling hub diameter.

• 制动力矩计算方法: $M = F \times [\text{制动盘半径}] (m) \times 0.065 [Nm]$ Dynamic torque calculating: $M = F \times [\text{disc radius} (m) \times 0.065] [Nm]$

• 提示: 表中所列制动力和制动力矩, 对于新制动衬垫, 只有在衬垫与制动盘良好磨合 (贴合面积达30%以上) 后方可达到。

Warning: As for new braking lining, the braking force and torque listed in this above table can be reached only after the lining well grinding on brake disc (sticking area is over 30%).

SB SBD系列安全制动器

SB SBD SERIES SAFETY BRAKES

应用 Application

- SB、SBD系列液压安全（紧急）制动器，是一种使用在低速轴（卷筒轴）上的大功率制动装置，可广泛用于大中型起重机、港口装卸机械起升以及臂架俯仰机构低速轴的紧急安全制动，矿用卷扬机、提升机和大功率倾角式皮带运输机的工作制动和紧急安全制动，缆车和索道起重机驱动机构的安全制动，铸造起重机等特种起重机起升机构低速轴的安全（紧急）制动。

APPLICATION

- Hydraulic safety (emergency) brakes are high-power braking devices which can be widely used as emergency safety brake on low speed shafts for the lifting control and pitching mechanism of various large and middle crane, port handling machinery. They are also applied for the same purpose for mine winder, lifter, elevators, belt Conveying machinery, cable cars, foundry and cable cranes and so on.

主要特点 Main Feature

- 常闭式设计，安全可靠；特制碟簧施力制动，液压驱动释放。
- （液压站选型详见液压站样本）。
- 动作灵敏，闭合（上闸）时间短。
- 可选配开闸限位开关和衬垫磨损极限限位开关，可进行联锁保护和故障显示。
- 高性能的无石棉硬质摩擦衬垫，摩擦系数稳定，不损伤制动盘且对水介质和盐雾（海水）的不敏感。
- 合理的密封结构设计和进口铭牌密封件，效果好，寿命长。
- 安装位置灵活，使用、调整、维护简单。

MAIN FEATURE

- Normally closed design, safe and reliable; specially-designed disc springs applied, hydraulic driving. Type selection of hydraulic power unit see "Manual for hydraulic power unit".
- Swift actions and short braking time.
- Be able to optionally equip with release limit and pad wear limit switch, which can realize signal indication and interlocking protection.
- Brake lining is made from non-asbestos hard material, which has high and stable friction performance, and it is insensitive to water, salt and other environmental agents.
- Excellent sealing ensure the brake long service life.
- Installing position is flexible, operation, adjustment and maintenance are easy.

符合标准 Standards Compliant

- 安全制动器技术要求符合JB/T10917-2008标准。

STANDARDS COMPLIANT

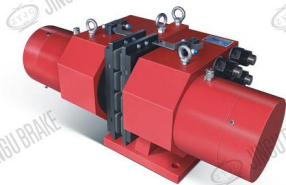
- The technology requirements of safety brakes comply with JB/T10917-2008 standard.

使用条件 Operating Condition

- 环境温度：-20℃~+40℃
- 相对湿度：空气相对湿度不大于90%
- 可选配液压站（液压站选型详见液压站样本）
- 有特殊要求时，在订货时协商确定。

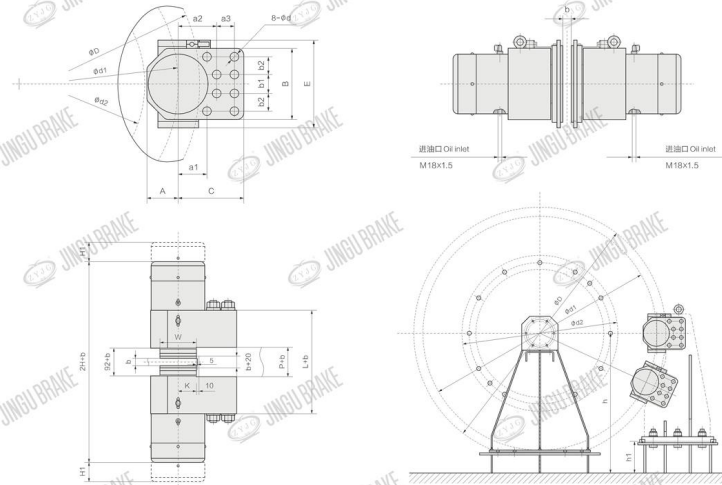
OPERATING CONDITION

- Ambient temperature: -20℃~+40℃.
- Relative humidity: air relative humidity is not more than 90%.
- Hydraulic power unit can be selected. Type selection of hydraulic power unit see "Manual for hydraulic power unit".
- Special requirements can be discussed before production.



SB系列 Series

安装及外形尺寸 Outline And Installation Dimension

安装方式 Installation
 H, H_1 由用户确定
 H, H_1 Determined by the user

型号意义 Model Significance



订货示例 Order Example

- SB250-2200×40 RL 表示额定夹紧力为250kN，制动盘直径为2200mm，盘厚为40mm，带开闸限位开关。

ORDER EXAMPLE

- SB250-2200×40 RL, Rated clamping force is 250kN, braking disc diameter is 2200mm, disc thickness is 40mm, with release limit switch.

SB 系列安全制动器技术参数 TECHNICAL DATA OF SB SERIES SAFETY BRAKES

表一

制动器型号 Brake Type	夹紧力 F Clamp force (kN)	释放压力 Release pressure (bar)	开闸油量 Release oil volume (ml)	退距 Clearance (mm)	摩擦系数 μ Friction coefficient	安装螺栓/性能等级/安装扭矩 Requested bolts, performance class, installation torque	不含支架重量 Weight (bracket excluded) (kg)
SB50	50	110	30	1-2	0.36	8-M20, 10.9, 680	90
SB100	100	120	50	1-2	0.36	8-M24, 10.9, 1200	150
SB160	160	120	70	1-2	0.36	8-M30, 10.9, 2200	310
SB250	250	130	95	1-2	0.36	8-M36, 10.9, 3540	452
SB315	315	140	115	1-2	0.36	8-M36, 10.9, 3540	672
SB400	400	120	170	1-2	0.36	8-M48, 10.9, 7400	1100
SB500	500	140	170	1-2	0.36	8-M48, 10.9, 7400	1200

制动力矩 Brake torque $Nm = F \times \mu \times d_1$ Torque in $Nm = F \times \mu \times d_1$

外形尺寸表 OUTLINE DIMENSION TABLE

表二

制动器型号 Brake Type	安装及外形尺寸 Dimensions (mm)											
	A	a1	a2	a3	b1	b2	B	C	d	k	P	L
SB50	77	77	90	38	38	38	154	150	20.5	56	102	300
SB100	95	95	105	45	55	45	190	180	25	71	102	348
SB160	110	120	135	65	70	65	260	235	31	87	106	412
SB250	130	120	160	75	80	75	300	275	37	87	106	456
SB315	140	175	205	85	90	82.5	335	330	37	137	106	476
SB400	170	180	220	120	110	110	440	420	50	137	142	602
SB500	170	180	220	120	110	110	440	420	50	137	142	602

与制动盘有关的尺寸 RELATIVE DIMENSIONS OF BRAKE DISC

表三

制动器型号 Brake Type	安装及外形尺寸 Dimensions (mm)			
	b	D	d1	d2 max
SB50	30	36	40	≥500
SB100	30	36	40	≥500
SB160	30	36	40	≥600
SB250	30	36	40	≥600
SB315	30	36	40	≥1200
SB400	30	36	40	≥1800
SB500	30	36	40	≥1800

• d1=理论摩擦直径

d1=theoretical friction diameter.

• d2=允许最大的卷筒或联轴器外径

d2=max. allowable drum or hub diameter.

• D: 如为其它直径, 请与我们联系。

For other disc diameters please contact us.

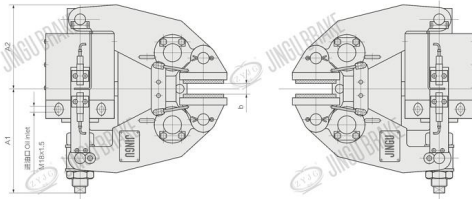
• 注: 具体型号, 结构外形尺寸保留更改的权利。

Note: The size of the specific type and structure should be retained.

SBD-A系列安全制动器

SBD-A SERIES SAFETY BRAKES

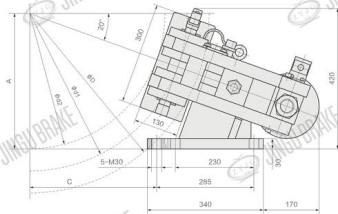
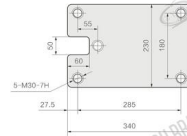
安装及外形尺寸 Outline And Installation Dimension



安装型式 Version: II 型

安装型式 Version: I 型

- 注: 括号内的尺寸用于SBD315-A
Note: Dimensions in bracket are used in SBD315-A

底板连接尺寸
Base plate connection
dimensions

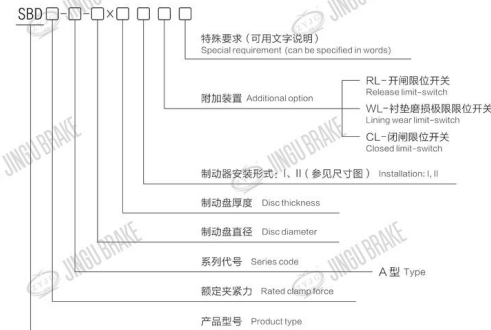
安装示意图 Installation Diagram

- 制动力矩: $M = \mu \times d1 \times F (Nm)$
- 式中: μ —摩擦系数计算取值 $\mu = 0.35$
 $d1$ —制动盘计算摩擦直径, $d1 = D - 135 (mm)$,
或 $D - 155 (mm)$ (后者针对SBD315-A)
 F —制动时总夹紧力 (KN)
- 注: 1) 制动盘直径用于 $\phi 800 \leq \phi D \leq \phi 1800 (mm)$
2) $d2$ —允许的最大卷筒或联接轮外径, $d2 = D - 270 (mm)$

INSTALLATION DIAGRAM

- Braking torque: $M = \mu \times d1 \times F (Nm)$
- In it: μ —the value of friction coefficient $\mu = 0.35$
 $d1$ —disc friction diameter $d1 = D - 135 (mm)$
or $D - 155 (mm)$ (the latter is specially used in SBD315-A)
 F —total clamp force (KN)
- Notes: 1) D—Brake disc diameter for $\phi 800 \leq \phi D \leq \phi 1800 (mm)$
2) $d2$ —max. allowable drum or hub diameter $d2 = D - 270 (mm)$

型号意义 Model Significance



SBD-A系列 Series

订货示例 Order Example

SBD250-A-1600×30 I RL 表示额定夹紧力为250KN, 带开闸限位开关, I型安装的A型安全制动器, 制动盘直径为1600mm, 盘厚为30mm。

ORDER EXAMPLE

SBD250-A-1600×30 I RL means its rated clamping force is 250KN with release limit switch and A-type safety brake of I version installation. The brake disc diameter is 1600mm and the disc thickness is 30mm.

SBD-A 系列安全制动器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF SBD-A SERIES SAFETY BRAKES

制动器型号 Brake type	总夹紧力 Total clamp force (kN)	制动力 Braking force (kN)	油缸工作压力 Cylinder pressure (bar)	开闸油量 Oil volume (ml)	开闸间隙 Released clearance (mm)	安装及外形尺寸 Dimensions (mm)							重量 Weight (kg)	
						A	C	d1	d2 max	D	A1	A2		b
SBD100-A	100	72	80	90	0.75-1.5	0.1710D+220	0.4700D-127	ØD-135	ØD-270	Ø800≤ØD ≤Ø1800	295	A20		195
SBD125-A	125	90	90	90	0.75-1.5						315	220		30
SBD160-A	160	115	110	75	0.75-1.25						315	235		(25)
SBD200-A	200	144	100	120	0.75-1.5						315	235		(36)
SBD250-A	250	180	120	100	0.75-1.25						350	258		235
SBD315-A	315	220	110	160	0.75-1.25	0.1710D+238		ØD-155	ØD-310		355	260	30(25)	280

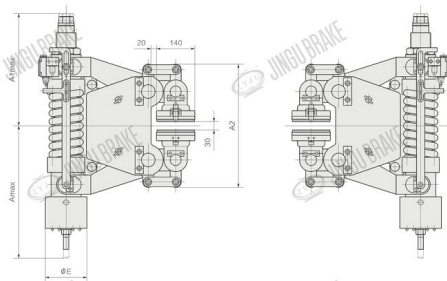
注: SBD-A 系列安全制动器为原型号SBD系列安全制动器。 Note: The original types of SBD-A series safety brakes are SBD.

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.

SBD-B系列安全制动器

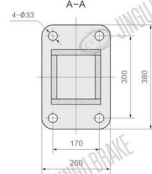
SBD-B SERIES SAFETY BRAKES

安装及外形尺寸 Outline And Installation Dimension



安装型式 Version: II 型

安装型式 Version: I 型



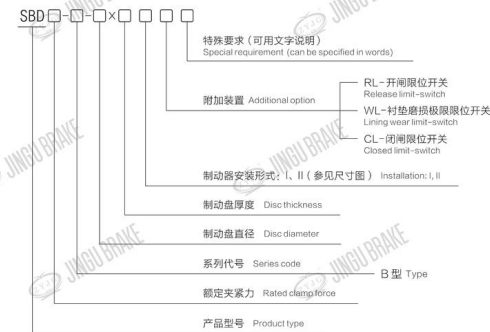
安装示意图 Installation Diagram

- 制动力矩: $M = \mu \times d1 \times F$ (Nm)
- 式中: μ - 摩擦系数计算取值 $\mu = 0.35$
 $d1$ - 制动盘计算摩擦直径, $d1 = D - 150$ (mm)
 F - 制动时总夹紧力 (KN)
- 注: 1) 制动盘直径 $D \geq \phi 800$ (mm)
2) $d2$ - 允许的最大卷筒或联接轴外径, $d2 = D - 360$ (mm)

INSTALLATION DIAGRAM

- Braking torque: $M = \mu \times d1 \times F$ (Nm)
- in ID: μ - the value of friction coefficient $\mu = 0.35$
 $d1$ - disc friction diameter $d1 = D - 150$ (mm)
 F - total clamp force (KN)
- Notes: 1) D - Brake disc diameter for $D \geq \phi 800$ (mm)
2) $d2$ - max. allowable drum or hub diameter $d2 = D - 360$ (mm)

型号意义 Model Significance



SBD-B系列 Series

订货示例 Order Example

- SBD80-B-1250×30 I RL 表示额定夹紧力为80KN, 带开闸限位开关, I型安装的B型安全制动器, 制动盘直径为1250mm, 盘厚为30mm。

ORDER EXAMPLE

- SBD80-B-1250×30 I RL means its rated clamping force is 80KN with release limit switch and I-type safety brake of I version installation. The brake disc diameter is 1250mm and the disc thickness is 30mm.

SBD-B系列安全制动器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF SBD-B SERIES SAFETY BRAKES

制动器型号 Brake type	额定夹紧力 Rated clamp force (KN)	制动力 Braking force (KN)	油缸工作压力 Cylinder pressure (bar)	开闸油量 Oil volume (ml)	开闸间隙 Released clearance (mm)	安装及外形尺寸 Dimensions (mm)							重量 Weight (kg)
						A max	A1 max	A2	C	C1	ØE	D	
SBD80-B	80	57	95	55	1-2	470	390	450	115	150	120	≥Ø800	270
SBD160-B	160	115	95	115	1-2	485	415	460	165	215	155	≥Ø800	310

- 1) SBD-B系列安全制动器为原型号SBB系列安全制动器。

1) The original types of SBD-B series safety brakes are SBB.

- 2) 摩擦系数: 静态0.4, 动态0.35。

2) Friction coefficient: Static 0.4, dynamic 0.35.

- 注: 具体型号, 结构外形尺寸保留更改的权利。

Note: The size of the specific type and structure should be retained.

安装及外形尺寸 Outline And Installation Dimension



- 制动力矩: $M = \mu \times d_1 \times F \text{ (Nm)}$
- 式中: μ -摩擦系数计算取值 $\mu = 0.35$
 d_1 -制动盘计算摩擦直径, $d_1 = D - 220 \text{ (mm)}$
 F -制动时总夹紧力 (kN)
- 注: 1) 制动盘直径 $D \geq \phi 1800 \text{ (mm)}$
 2) d_2 -允许的最大卷筒或连接鞍外径, $d_2 = D - 500 \text{ (mm)}$

- Braking torque: $M = \mu \times d_1 \times F \text{ (Nm)}$
- In it: μ = the value of friction coefficient $\mu = 0.35$
 d_1 = disc friction diameter $d_1 = D - 220 \text{ (mm)}$
 F = total clamp force (KN)
- Notes: 1) D = Brake disc diameter for $D \geq \phi 1800 \text{ (mm)}$
 2) d_2 = max. allowable drum or hub diameter $d_2 = D - 500 \text{ (mm)}$

型号意义 Model Significance



订货示例 Order Example

• SBD365-C-2200×40 I RL 表示额定夹紧力为365KN，带开闸限位开关，I型安装的C型安全制动器，制动盘直径为2200mm，盘厚为40mm。

ORDER EXAMPLE

- SBD365-C-2200×40 IRL means its rated clamping force is 365KN with release limit switch and C-type safety brake of I version installation. The brake disc diameter is 2200mm and the disc thickness is 40mm.

SBD-C 系列安全制动器技术参数及安装尺寸 TECHNICAL DATA AND DIMENSIONS OF SBD-C SERIES SAFETY BRAKES

制動型号 Brake type	額定牽引力 Rated cable force (kN)	制動力 Braking force (kN)	油缸工作壓力 Cylinder pressure (bar)	開閉油量 Oil volume (ml)	開閉間隙 Released clearance (mm)	安裝及外形尺寸 Dimensions (mm)			重量 Weight (kg)
						A max	A1	D	
SBD250-C	250	180	80	275	1~2	595	378	≥φ1800	660
SBD365-C	365	262	80	275	1~2	790	570	≥φ1800	720
SBD425-C	425	306	95	275	1~2	790	570	≥φ1800	730

- * 1) SBD-C 系列安全制动器为原型 SBB 系列安全制动器。
 The original types of SBD-C series safety brakes are SBB.
 * 2) 摩擦系数: 静态 0.4, 动态 0.35。
 Friction coefficient: Static 0.4, dynamic 0.35.
- * 注: 具体型号, 结构外形尺寸保留更改的权利。
 Note: The size of the specific type and structure should be retained.

SE系列电磁失效保护盘式制动器

SE SERIES ELECTROMAGNETIC FAILURE PROTECTION DISC BRAKES

应用 Application

- SE系列电磁失效保护盘式制动器与鼓式制动器相比，具有结构紧凑、制动力大、安装方便等优点，它主要适用于起重、运输、冶金、矿山、港口、建筑机械、电缆、吊索设备、风力发电机、纺织机械等行业的多种机械驱动配套的机械制动或减速。

APPLICATION

Compared with drum brake, SE series electromagnetic failure protection disc brake has the advantages of compact structure, large braking force and convenient installation. It is mainly suitable for mechanical braking or deceleration of various mechanical drives in lifting, transportation, metallurgy, mining, port, construction machinery, cable, sling equipment, wind turbine, textile machinery and other industries.

主要特点 Main Feature

- 结构紧凑、制动力巨大、和工作制动器一样。
- 发现超速的情况下，用作紧急制动器，正常情况下静态制动器响应时间短。
- 安装公差大：制动盘端面跳动最大值： $\pm 0.2\text{mm}$ 。底座相对于盘的垂直度偏差： $\pm 4\%$ 。
- ST1SE、ST2SE仅适合用作安全制动器，当使用频率很低时也可用作工作制动器。

MAIN FEATURE

- Compact structure, large braking torque, same as working brake.
- In case of overspeed, it is used as emergency brake, and the response time of static brake is short under normal conditions.
- The installation tolerance is large, and the maximum value of end face runout of brake disc is $\pm 0.2\text{mm}$. Perpendicularity deviation of base relative to disc: $\pm 4\%$.
- ST1SE and ST2SE can only be used as safety brakes, and can also be used as working brakes when the frequency is very low.

附加装置 Additional Devices

- 衬垫磨损显示：通过显示开关或衬垫里的磨损线实现。
- 制动显示：通过显示开关实现。
- 手动释放显示：通过显示开关实现。
- 特殊应用
- 用于盘温非常高时的烧结衬垫，特种衬垫，无火花等。
- 特殊盘：厚度、直径、材料等。若有特殊需求，请与我们的技术人员联系协商订货。

SE系列 Series

使用条件 Operating Condition

- 环境温度： $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 周围工作环境中不得有易燃、易爆气体。
- 相对湿度：空气相对湿度不大于90%
- 使用地点的海拔高度符合GB755-2019
- 户外需雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。

OPERATING CONDITION

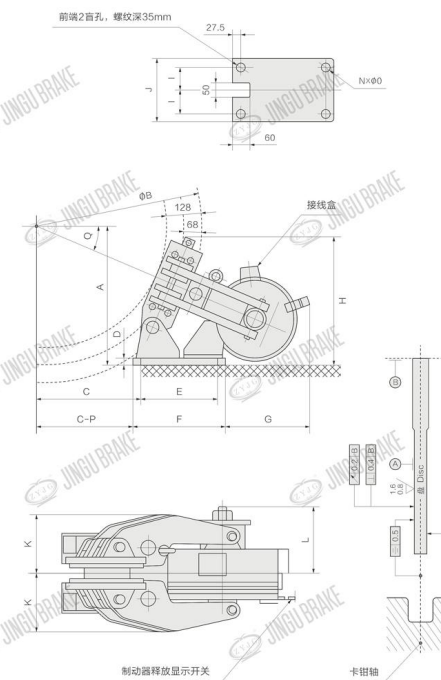
- Ambient temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$.
- There shall be no inflammable or explosive gas in the surrounding working environment.
- Relative humidity: the relative humidity of the air is not more than 90%
- The altitude of the place of use conforms to GB755-2019
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.

ADDITIONAL DEVICES

- Pad wear display: it is realized by displaying the wear line in the switch or pad.
- Brake display: realized by display switch.
- Manual release display: through the display switch.
- Special applications
- Used for sintering pad, special pad, no spark, etc.
- Special disc: thickness, diameter, material, etc. If you have any special needs, please contact our technical staff to negotiate the order.

ST1SE、ST2SE外形尺寸 ST1SE, ST2SE Dimension

弹簧制动~电力释放~适合盘厚：15或30mm
Spring brake ~electric release ~suitable for disc thickness: 15 or 30mm



ST1SE、ST2SE基本参数和尺寸

ΦB-单位: mm

基本参数	制动力矩公式 Nm	制动力矩=制动力/1000x(ΦB/2-68)
	两侧通距 mm	0.7
额定制动力 N	ST1SE: 35000 (安全制动) / 25000 (工作制动)	
	ST2SE: 70000 (安全制动) / 50000 (工作制动)	
功率消耗 W	启动功率 ST1SE: 1760 ST2SE: 2830	
	维持功率 ST1SE: 60 ST2SE: 160	
响应时间 s	ST1SE: 0.15 ST2SE: 0.2	
	重量 kg	ST1SE: 155 ST2SE: 194
外形尺寸 mm	A	ST1SE: A=0.179xΦB+263 ST2SE: A=0.171xΦB+279
	C	ST1SE: A=0.466xΦB-155 ST2SE: A=0.470xΦB-161
	D	24.5
	E	285
	F	340
	G	ST1SE: 275 ST2SE: 281
	H	ST1SE: 460 ST2SE: 477
	I	90
	J	230
	K	167
	L	210
	N	4
	O	M30
	P	27.5
	Q	ST1SE: 21° ST2SE: 20°

• 注：该制动器须配备专用电源，具体参阅配套电源。
Note: The brake must be equipped with special power supply, please refer to the supporting power supply for details.

• 本制动器只适合做安全制动器，不适合做工作制动器。
This brake is only suitable for safety brake, not for working brake.

• 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.

SE系列电磁失效保护盘式制动器

SE SERIES ELECTROMAGNETIC FAILURE PROTECTION DISC BRAKES

主要特点 Main Feature

- 体积小，重量轻。无石棉制动衬垫，绿色环保，安装、更换方便快捷。
- 结构紧凑、制动力矩大、和工作制动器一样。
- 发现超速的情况下，用作紧急制动器，正常情况下静态制动响应时间短。
- 安装公差大，制动盘端面跳动最大值： $\pm 0.2\text{mm}$ ，底座相对于盘的垂直度偏差： $\pm 4\%$ 。

MAIN FEATURE

- Small size and light weight. Asbestos free brake pad, green and environmental protection, convenient and fast installation and replacement.
- Compact structure, large braking torque, same as working brake.
- In case of over speed, it is used as emergency brake, and the response time of static brake is short under normal conditions.
- The installation tolerance is large, and the maximum value of end face runout of brake disc is $\pm 0.2\text{mm}$. Perpendicularity deviation of base relative to disc: $\pm 4\%$.

使用条件 Operating Condition

- 环境温度： $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 周围工作环境中不得有易燃、易爆气体。
- 相对湿度：空气相对湿度不大于90%
- 使用地点的海拔高度符合GB755-2019
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。

OPERATING CONDITION

- Ambient temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- There shall be no inflammable or explosive gas in the surrounding working environment.
- Relative humidity: the relative humidity of the air is not more than 90%
- The altitude of the place of use conforms to GB 755-2019
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.

5SE、450SE、4SE、3SE外形尺寸

5SE, 450SE, 4SE, 3SE Dimension

弹簧制动-电力释放-适合盘厚: 15或30mm
Spring brake - electric release - suitable for disc thickness:
15 or 30mm

• 推荐使用的空间尺寸

It is recommended to use the space size

5SE、450SE、4SE、3SE基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF 5SE, 450SE, 4SE, 3SE

基本参数 Basic parameters				安装及外形尺寸 Dimensions (mm)																	功率消耗 W		响应 时间 (s)	两线 退距 (mm)	重量 (kg)	
盘径 ΦB mm	额定制动力 N	额定制动力矩 Nm	轴径最大 轴荷力 N	A	C	D	E	F	G	H	I	J	K	L	O	P	Q	R	T	启动 功率	维持 功率					
315	5SE 190			159	99																					
	450SE 380			159	99																					
355	5SE 220			165	119																					
	450SE 450			165	119																					
400	5SE 260	5SE 172	142																							
	450SE 510	1650	172	142																						
450	5SE 300	1650	179	167																						
	450SE 600	740	179	167	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE	5SE
1650	4SE 950		225	133	15	200	245	155	280	87.5	200	15	15	13"	90	42	120	175	475	14	0.15				34	
	3SE 1600	450SE 287	103																							
500	5SE 340	3340	187	192																						
	450SE 680	187	192	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE	450SE
3340	4SE 1120	1500	232	157	15	200	245	155	280	87.5	200	15	15	13"	90	42	120	175	1000	44	0.15				34	
	3SE 1820		295	127																						
560	5SE 390	4SE 195	223																							
	450SE 770	195	223	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE	4SE
5880	4SE 1270	241	185	20	260	355	85	343	117.5	270	22	20	17"	122	57	165	210	1000	42	0.2					77	
	3SE 2100	3440	305	155																						
630	5SE 460	206	258																							
	450SE 900	3SE 206	258	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE	3SE
10170	4SE 1500	251	218	25	360	490	80	435	117.5	270	22	20	20"	128	68	165	210	1095	58	0.2					120	
	3SE 2500	10170 两台	317	188																						
710	450SE 1030	6965	218	298																						
	4SE 1750		262	256																						
800	3SE 2900		331	226																						
	450SE 1180		231	344																						
800	4SE 2000		274	299																						
	3SE 3350		346	269																						

• 注：该制动器须配备专用电源，具体参阅配套电源。 Note: The brake must be equipped with special power supply, please refer to the supporting power supply for details.

• 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.

SE系列电磁失效保护盘式制动器

SE SERIES ELECTROMAGNETIC FAILURE PROTECTION DISC BRAKES

主要特点 Main Feature

- 体积小，重量轻。无石棉制动衬垫，绿色环保，安装、更换方便快捷。
- 结构紧凑、制动力矩大、和工作制动器一样。
- 发现超速的情况下，用作紧急制动器，正常情况下静态制动器响应时间短。
- 安装公差大，制动盘端面跳动最大值： $\pm 0.2\text{mm}$ 。底座相对于齿的垂直度偏差： $\pm 4\%$ 。

MAIN FEATURE

- Small size and light weight. Asbestos free brake pad, green and environmental protection, convenient and fast installation and replacement.
- Compact structure, large braking torque, same as working brake.
- In case of over speed, it is used as emergency brake, and the response time of static brake is short under normal conditions.
- The installation tolerance is large, and the maximum value of end face runout of brake disc is $\pm 0.2\text{mm}$. Perpendicularity deviation of base relative to disc: $\pm 4\%$.

使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 周围工作环境中不得有易燃、易爆气体。
- 相对湿度：空气相对湿度不大于90%
- 使用地点的海拔高度符合GB755-2019
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。

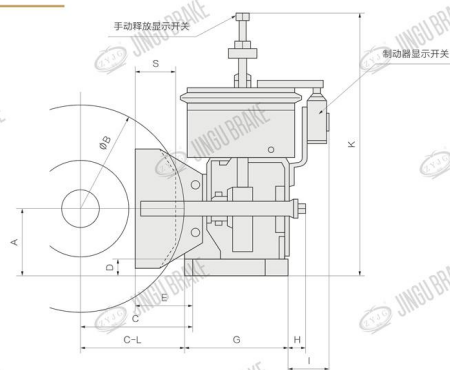
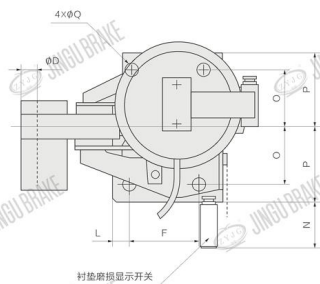
OPERATING CONDITION

- Ambient temperature: -20°C $-+50^{\circ}\text{C}$
- There shall be no inflammable or explosive gas in the surrounding working environment.
- Relative humidity: the relative humidity of the air is not more than 90%
- The altitude of the place of use conforms to GB 755-2019
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.

561SE、560SE、56SE外形尺寸 561SE, 560SE, 56SE Dimension

弹簧制动-电力释放-适合盘厚: 15或30mm

Spring brake - electric release - suitable for disc thickness: 15 or 30mm



561SE、560SE、56SE基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF 561SE, 560SE, 56SE

基本参数 Basic parameters				安装及外形尺寸 Dimensions (mm)																功率消耗 W		响应时间 (s)	两制退距 (mm)	重量 (kg)
盘径 ΦB mm	额定制动动力 N	额定制动力矩 Nm	轴受最大径向力 N	A	C	D	E	F	G	H	I	K	L	N	O	P	Q	S	启动功率	维持功率				
175		561SE 40				118																		
		560SE 80																						
		56SE 110																						
220		561SE 50				130																		
		560SE 90																						
		56SE 130																						
250		561SE 60				145																		
		560SE 120																						
		56SE 150																						
315	640	561SE 80	561SE 一台 640 两台 0			178																		
		560SE 150																						
		56SE 190																						
		561SE 90																						
355	560SE 1220	560SE 170	560SE 一台 1220 两台 0	85	198	20	75	92	135	30	50	333	12	83	73.5	95	15	50		561SE 255	561SE 7	0.15	0.7	20
		56SE 220																						
400	56SE 1600	561SE 100				220																		
		560SE 200																						
		56SE 260																						
450		561SE 120				245																		
		560SE 230																						
		56SE 300																						
500		561SE 140	56SE 一台 1600 两台 0			270																		
		560SE 285																						
		56SE 350																						
560		561SE 150				300																		
		560SE 280																						
		56SE 390																						
630		561SE 180				335																		
		560SE 340																						
		56SE 440																						

- 注：该制动器须配备专用电源，具体参阅配套电源。 Note: The brake must be equipped with special power supply, please refer to the supporting power supply for details.

应用 Application

- SH系列失效保护盘式制动器与鼓式制动器相比，具有结构紧凑、制动力大、安装方便等优点，它主要适用于起重、运输、冶金、矿山、港口、建筑机械、电缆、吊索设备、风力发电机、纺织机械等各行业的多种机械驱动配套的机械制动或减速。

APPLICATION

- * Compared with drum brake, SH series electromagnetic failure protection disc brake has the advantages of compact structure, large braking force and convenient installation. It is mainly suitable for mechanical braking or deceleration of various mechanical drives in lifting, transportation, metallurgy, mining, port, construction machinery, cable, sling equipment, wind turbine, textile machinery and other industries.

主要特点 Main Feature

- 体积小，重量轻。无石棉制动衬垫，绿色环保，安装、更换方便快捷。
- 制动力大、维修费用低，带衬垫磨损自动补偿装置（制动力矩稳定），响应时间短。
- 安装公差大，制动盘端面跳动最大值： $\pm 0.2\text{mm}$ 。底座相对于盘的垂直度偏差： $\pm 4\%$ 。
- 制动盘相对于底座的中心距偏差，最大值： $\pm 2.5\text{mm}$ 。

MAIN FEATURE

- Small size and light weight. Asbestos free brake pad, green and environmental protection, convenient and fast installation and replacement.
- Large braking torque, low maintenance cost, with automatic pad wear compensation device (stable braking torque) and short response time.
- The installation tolerance is large, and the maximum value of end face runout of brake disc is $\pm 0.2\text{mm}$. Perpendicularity deviation of base relative to disc: $\leq 4\%$.
- Center distance deviation of brake disc relative to base, maximum value: $\pm 2.5\text{mm}$.

附加裝置 Additional Devices

- 衬垫磨损显示：通过显示开关或衬垫里的磨损线实现。
- 制动显示：通过显示开关实现。
- 手动释放显示：通过显示开关实现。
- 特殊应用
 - 用于温度非常高的烧结衬垫，特种衬垫，无火星等。
 - 特殊值：厚度、直径、材料等。若有特殊需求，请与我们的技术人员联系协商订货。



使用条件 Operating Condition

- 环境温度：-20℃~+50℃
- 周围工作环境中不得有易燃、易爆气体。
- 相对湿度：空气相对湿度不大于90%
- 使用地点的海拔高度符合GB755-2019
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品

OPERATING CONDITION

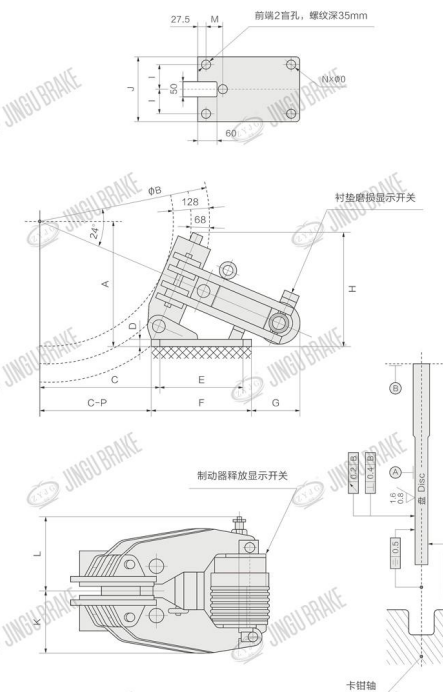
- Ambient temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- There shall be no inflammable or explosive gas in the surrounding working environment.
- Relative humidity: the relative humidity of the air is not more than 90%
- The altitude of the place of use conforms to GB 755-2019
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.

ADDITIONAL DEVICES

- Pad wear display: It is realized by displaying the wear line in the switch or pad.
- Brake display: realized by display switch.
- Manual release display: Through the display switch.
- Special applications
- Used for sintering pad, special pad, no spark, etc.
- Special disc: thickness, diameter, material, etc. If you have any special needs, please contact our technical staff to negotiate the order.

ST1SH、ST2SH、ST3SH外形尺寸 ST1SH, ST2SH, ST3SH Dimension

Spring brake - hydraulic release - suitable for disc thickness: 30mm

ST1SH、ST2SH、ST3SH 基本参数和尺寸 ΦB-单位: mm

	制动力矩公式 Nm	制动力矩=制动力/1000x(ΦB/2-68)
基本参数	响应时间 s	0.2
	两脚速度 mm	0.7
	释放压力 bar	100
	ST1、2SH匹配液压站	YZ1-10-10
	ST3SH匹配液压站	一拖一 一拖二 YZ1-10-10 一拖三 YZ2-10-20
	进口口尺寸	Z1/4
	额定制动力 KN	ST1SH: 35 (安全制动) /25 (工作制动) ST2SH: 70 (安全制动) /50 (工作制动) ST3SH: 147 (安全制动) /105 (工作制动)
	关泵力 KN	ST1SH: 50 (安全制动) /35 (工作制动) ST2SH: 100 (安全制动) /72 (工作制动) ST3SH: 210 (安全制动) /150 (工作制动)
	完全释放位移量 cm ¹	ST1SH: 18 ST2SH: 50 ST3SH: 135
	总油缸容积 cm ³	ST1SH: 34 ST2SH: 83 ST3SH: 227
重量 kg	ST1SH: 117 ST2SH: 117 ST3SH: 118	
外形尺寸 mm	A	A=0.203xΦB÷211
	C	C=0.465xΦB-133
	D	25
	E	285
	F	340
	G	180
	H	410
	I	90
	J	230
	K	200
	L	213.5
	M	55
	N	5
O	M30	
P	27.5	

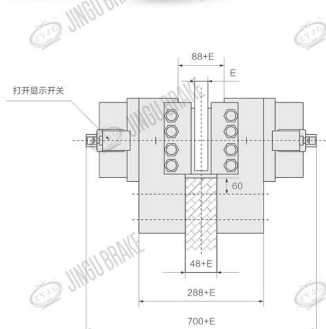
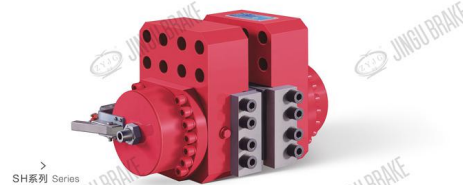
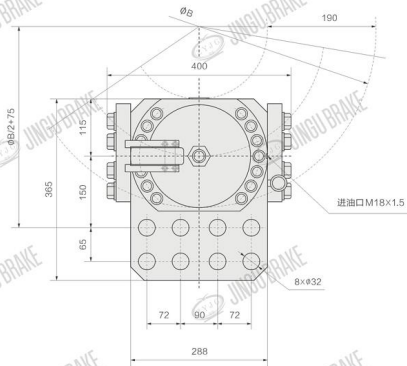
•注: 具体型号, 结构及外形尺寸保留更改的权利。
Note: The size of the specific type and structure should be retained

SH系列液压失效保护盘式制动器

SH SERIES HYDRAULIC FAILURE PROTECTION DISC BRAKES

ST25SH-A外形尺寸 ST25SH-A Dimension

弹簧制动-液压释放 Spring brake-hydraulic release



- 连接件: 8个螺栓M30 等级12.9
- 上紧力矩: 1500Nm
- 制动力矩 (Nm) = 制动力/1000x[(0.8/2)-75]

ST25SH-A 基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF ST25SH-A

0.8-单位: mm

最大制动力 Maximum braking force	N	230000	200000	180000	150000
间隙 Clearance	mm	1.0	2.0	3.0	4.0
释放压力 Release pressure	bar		190		
安全释放的移位容量 Safe release shift capacity	ml		95		
油缸容积 Total cylinder volume	ml		560		
响应时间 Response time	S		0.2		
重量 weight	kg		280		
匹配液压站型号 Matching hydraulic station model		一拖一: YZ1-20-10 一拖四: YZ2-20-20			

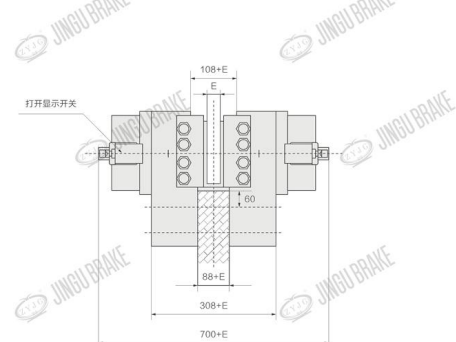
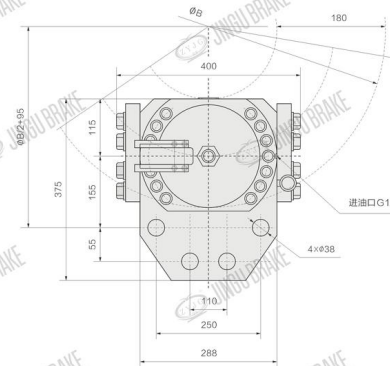
* 注: 产品有更新, 请注意最新版本。 Note: The product is updated, please pay attention to the latest version.

SH系列液压失效保护盘式制动器

SH SERIES HYDRAULIC FAILURE PROTECTION DISC BRAKE

ST25SH-C外形尺寸 ST25SH-C Dimension

弹簧制动-液压释放 Spring brake-hydraulic release



- 连接件: 4个螺栓M36 等级12.9
- 上紧力矩: 4280Nm
- 制动力矩 (Nm) = 制动力/1000x[(0.8/2)-60]

ST25SH-C 基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF ST25SH-C

0.8-单位: mm

最大制动力 Maximum braking force	N	230000	200000	180000	150000
间隙 Clearance	mm	1.0	2.0	3.0	4.0
释放压力 Release pressure	bar		160		
安全释放的移位容量 Safe release shift capacity	ml		570		
油缸容积 Total cylinder volume	ml		115		
响应时间 Response time	S		0.2		
重量 weight	kg		280		
匹配液压站型号 Matching hydraulic station model		一拖一: YZ1-20-10 一拖四: YZ2-20-20			

* 注: 产品有更新, 请注意最新版本。 Note: The product is updated, please pay attention to the latest version.

SH系列液压失效保护盘式制动器

SH SERIES HYDRAULIC FAILURE PROTECTION DISC BRAKES

ST4SH、ST5SH基本参数和尺寸

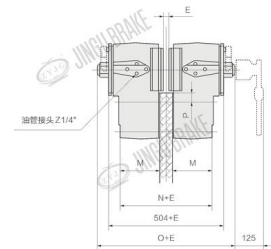
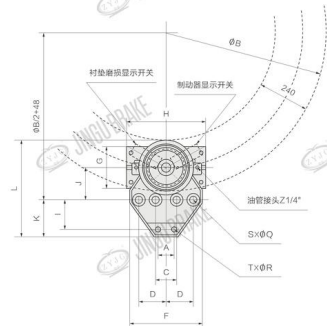
ΦB-单位: mm

基本参数	制动力矩公式 Nm	制动力矩=制动力/1000×(ΦB/2-108)
	单侧行程 mm	1
	额定压力 Mpa	ST4SH: 10 ST5SH: 19
	进油口尺寸	ST4SH: Z1/4 ST5SH: Z1/2
	额定制动力 kN	ST4SH: 120000 (安全制动) / 90000 (工作制动) ST5SH: 293000 (安全制动) / 220000 (工作制动)
	响应时间 s	0.2
	完全释放行程 mm	ST4SH: 110 ST5SH: 120
	总油缸容积 cm ³	ST4SH: 408 ST5SH: 678
	ST4SH匹配液压站	一拖一、一拖二: YZ1-10-10 一拖四: YZ2-20-20
	ST5SH匹配液压站	一拖一、一拖二: YZ1-20-10 一拖四: YZ2-20-20
	重量 kg	ST4SH: 285 ST5SH: 440
外形尺寸 mm	A	80
	C	100
	D	125
	F	336
	G	ST4SH: 200 ST5SH: 204
	H	ST4SH: 355 ST5SH: 420
	I	140
	J	155
	K	173
	L	460
	M	190
	N	410
	O	ST4SH: 617 ST5SH: 970
	P	40
	Q	34
	R	25
	S	ST4SH: 4 ST5SH: 6
	T	ST4SH: 2 ST5SH: 0

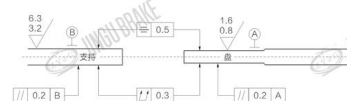
*注: 具体型号、结构及外形尺寸保留更改的权利。
Note: The size of the specific type and structure should be retained.

ST4SH、ST5SH外形尺寸 ST4SH、ST5SH Dimension

弹簧制动-液压释放-Spring brake-hydraulic release



- ST4SH: 连接件
4个螺栓M33: 等级10-9
上紧力矩: 685Nm
2个螺栓M24: 等级10-9
上紧力矩: 255Nm
- ST5SH: 连接件
6个螺栓M33: 等级10-9
上紧力矩: 1600Nm



主要特点 Main Feature

- 体积小、重量轻。无石棉制动衬垫, 绿色环保, 安装、更换方便快捷。
- 制动力大、维修费用低, 带衬垫磨损自动补偿装置 (制动力矩稳定), 响应时间短。
- 安装公差大, 制动盘端面跳动最大值: $\pm 0.2\text{mm}$ 。底座相对于盘的垂直度偏差: $\pm 4\%$ 。
- 制动盘相对于底座的中心距偏差, 最大值: $\pm 2.5\text{mm}$ 。

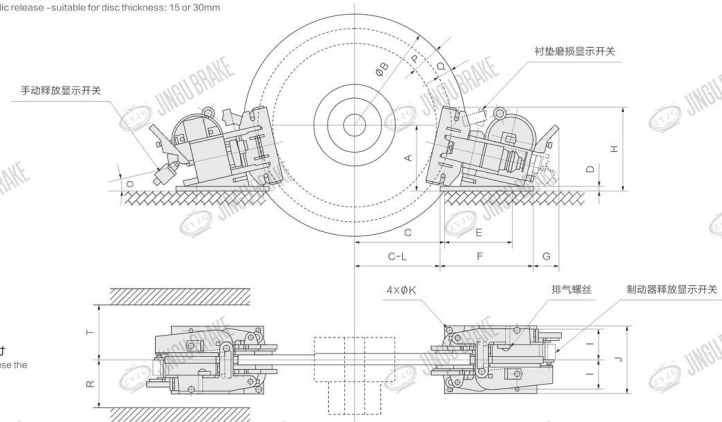
MAIN FEATURE

- Small size and light weight. Asbestos free brake pad, green and environmental protection, convenient and fast installation and replacement.
- Large braking torque, low maintenance cost, with automatic pad wear compensation device (stable braking torque) and short response time.
- The installation tolerance is large, and the maximum value of end face runout of brake disc is $\pm 0.2\text{mm}$. Perpendicularity deviation of base relative to disc: $\pm 4\%$.
- Center distance deviation of brake disc relative to base, maximum value: $\pm 2.5\text{mm}$.

5SH、450SH、4SH、3SH外形尺寸 5SH、450SH、4SH、3SH Dimension

弹簧制动-液压释放-适合盘厚: 15或30mm

Spring brake-hydraulic release-suitable for disc thickness: 15 or 30mm



*推荐使用的空间尺寸
(It's recommended to use the space size)

使用条件 Operating Condition

- 环境温度: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 周围工作环境中不得有易燃、易爆气体。
- 相对湿度: 空气相对湿度不大于90%
- 使用地点的海拔高度符合GB755-2019
- 户外雨雪侵蚀或有腐蚀性气体和介质应采用防腐型产品。

OPERATING CONDITION

- Ambient temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- There shall be no inflammable or explosive gas in the surrounding working environment.
- Relative humidity: the relative humidity of the air is not more than 90%
- The altitude of the place of use conforms to GB755-2019
- Outdoor rain and snow erosion or corrosive gases and media should use anti-corrosion products.

5SH、450SH、4SH、3SH基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF 5SH, 450SH, 4SH, 3SH

基本参数 Basic parameters			安装及外形尺寸 Dimensions (mm)																	总油容积 (cm³)	进油尺寸	响应时间 (s)	两侧退距 (mm)	重量 (kg)
直径ΦB mm	额定转矩 20% FN	额定制动力矩 Nm	轴受最大径向力 N	A	C	D	E	F	G	H	I	J	K	L	O	P	Q	R	T					
315	5SH 190			159	99																			
	450SH 380			159	99																			
355	5SH 220			165	119																			
	450SH 450	5SH 165		165	119																			
400	5SH 260	一台 1650		172	142																			
	450SH 510	两台		172	142																			
450	5SH 300	740		179	167	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH	5SH
	1650 450SH 600			179	167	15	200	245	155	280	87.5	200	15	15	13*	90	42	120	175	13		0.15		27
	4SH 950			225	133																			
	3SH 1600	450SH 287		287	103																			
450SH	5SH 340	一台 3340		187	192	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH	450SH
	3400 450SH 680			187	192	15	200	245	155	280	87.5	200	15	15	13*	90	42	120	175	25		0.15		28
500	4SH 1120	1500		232	157																			
	3SH 1820			295	127																			
	5SH 390			195	223																			
	4SH 770	4SH 195		195	223	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH	4SH
560	5880 4SH 1270	一台 5580		241	185	20	260	355	85	343	117.5	270	22	20	17*	122	57	165	210	77		0.2		62
	3SH 2100	5580 3440		305	155																			
	5SH 460			206	258																			
	3SH 900			206	258	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH	3SH
630	10170 4SH 1500			251	218	25	360	490	80	435	117.5	270	22	20	20*	128	68	165	210	102		0.2		95
	3SH 2500	3SH 317		317	188																			
	450SH 1030	一台 10170		218	298																			
	4SH 1750	两台		262	256																			
710	3SH 2900	6965		331	226																			
	450SH 1180			231	344																			
800	4SH 2000			274	299																			
	3SH 3350			346	269																			

*注：该制动器须配备专用电源，具体参阅配套电源。 Note: The brake must be equipped with special power supply, please refer to the supporting power supply for details.

*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.

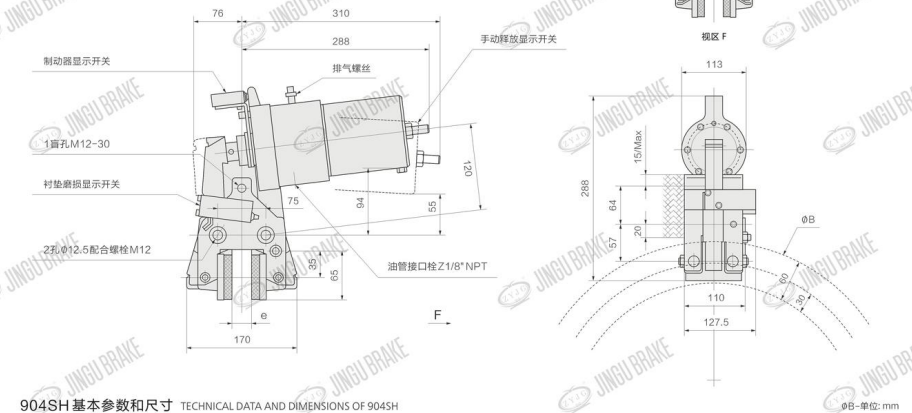
SH系列液压失效保护盘式制动器

SH SERIES HYDRAULIC FAILURE PROTECTION DISC BRAKES

- 连接件：1个螺丝钉M12-30+2个M12；等级10-9
- 上紧力矩：50Nm
- 制动力矩 (Nm) = 制动力/1000×[(ΦB/2)-30]

904SH外形尺寸 904SH Dimension

弹簧制动-液压释放-适合盘厚：15或30mm
Spring brake-hydraulic release-suitable for disc thickness: 15 or 30mm



904SH基本参数和尺寸 TECHNICAL DATA AND DIMENSIONS OF 904SH

用于紧急制动时最大制动力 Maximum braking force for emergency braking	N	20000 (衬垫A) 904-A
用于工作制动时最大制动力 Maximum braking force for service braking	N	15000 (衬垫M) 904-M
释放压力 Release pressure	bar	60
安全释放的移位容量 Safe release shift capacity	cm³	33
油缸容积 Total cylinder volume	cm³	98
响应时间 Response time	s	0.3
重量 weight	kg	28
匹配液压站型号 Matching hydraulic station model		一拖一: 拖二: YZ1-10-10 一拖四: YZ2-20-20

*注：产品有更新，请关注最新版本。 Note: The product is updated, please pay attention to the latest version.



安全制动·金箍掌控

DISC BRAKES 盘式制动器

ADP系列气动直动制动器

ADP SERIES PNEUMATIC STRAIGHT MOVING BRAKES

使用条件 Operating Condition

- 环境温度: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 使用地点的海拔高度不超过2000m。
- 制动器周围工作环境中, 无危险的介质及足以腐蚀金属和破坏绝缘的气体 and 导电尘埃。
- 在空气相对湿度不大于90%的室内或有防雨、雪的装置下使用。
- 电源电压为DC110V或DC220V。若用户有特殊要求, 请订货时协商确定。

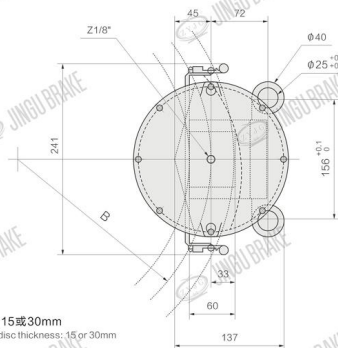
OPERATING CONDITION

- Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- The altitude of the place of use shall not exceed 2000 m.
- In the working environment around the brake, there is no dangerous medium and enough gas and conductive dust to corrode metals and destroy insulation.
- Used indoors with air relative humidity not more than 90% or under rain or snow protection devices.
- The supply voltage is DC110V or DC220V. Customers have special requirements, please negotiate when ordering.

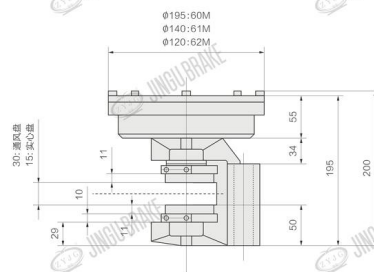


ADP系列 Series

ADP60M、ADP61M、ADP62M外形尺寸 Outline Dimensions

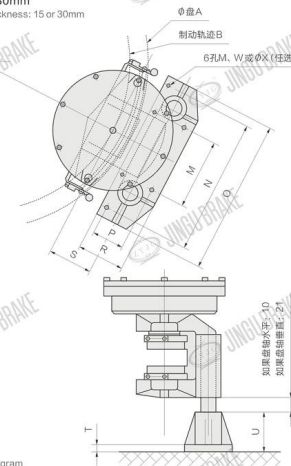


适合盘厚: 15或30mm
Suitable for disc thickness: 15 or 30mm



底板与盘平行时的装配形式 Installation type

适合盘厚: 15或30mm
Suitable for disc thickness: 15 or 30mm



ADP安装总图
ADP Installation diagram

ADP60M、ADP61M、ADP62M技术参数 TECHNICAL DATA

制动器型号 Brake type	压力 bar Pressure	制动力 N Braking force	重量 kg Weight
ADP60M	7.5	$F = P \times 990$	12
ADP61M	15	$F = P \times 424$	11
ADP62M	15	$F = P \times 265$	10

特别说明 Special description

- 制动力矩 (Nm) = 制动力 / 1000 × B (B为摩擦半径, 单位: mm)
- 对于“B”尺寸和安装数据, 请看ADP60M-ADP61M-ADP62M总装图
- P=可得到的压力 (bar)

ADP60M、ADP61M、ADP62M外形尺寸 OUTLINE DIMENSIONS

制動器型號 Brake type	安裝及外形尺寸 (Dimensions (mm))																					
	A	B	C	D	E	F	G	H	J	K	L	N	M	O	P	R	S	T	U	V	W	X
ADP60M	315	117	90	135	130	245	12	160	110	140	10	120	210	240	54	80	72	10	65	8	9	
ADP61M	355	138	95	145	135	260	12	180	110	140	10	120	210	240	54	80	72	10	65	8	9	
ADP62M	395	156	105	150	145	275	12	200	110	140	10	120	210	240	54	80	72	10	65	8	9	
	445	183	115	160	155	295	12	225	110	140	10	120	210	240	54	80	72	10	65	8	9	

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



安全制动·金箍掌控

DISC BRAKES 盘式制动器

DJPZ系列电机盘式制动器

DJPZ SERIES MOTOR DISC BRAKES

应用 Application

- DJPZ系列电机盘式制动器是电气传动系统的重要组成部分，它与Y系列电动机配套组成一种新型的YEJ系列电磁制动三相异步电动机。主要应用于冶金、化工、建筑、矿山机械等行业，实现快速停车和准确定位，对机构进行安全制动。该制动器具有结构紧凑、安装方便、噪音低、灵敏度高、制动可靠等优点。

APPLICATION

- DJPZ series motor disc brake is an important component of electric drive system. It forms a new YEJ series electromagnetic brake three-phase asynchronous motor with Y series motor. It is mainly used in metallurgy, chemical industry, construction, mining machinery and other industries to realize fast parking and accurate positioning, and to brake the mechanism safely. The brake has the advantages of compact structure, convenient installation, low noise, high sensitivity and reliable braking.

主要特点 Main Feature

- 常闭式设计，弹簧制动，电力释放，安全可靠。
- 结构简单、安装方便。动作迅速、可靠，可满足较高工作频率的工况要求。
- 带有手动释放功能，可在断电时应急释放。

MAIN FEATURE

- Normally closed design; spring applied, electric released, safe and reliable.
- Quick action, reliable, and may satisfy the working conditions of high operating frequency.
- With the manual release function, emergency release when the power failure.

型号意义 Model Significance



- 可根据需要加装检测开关，进行状态显示或保护。
Detection switch can be installed as needed, which can realize signal indication and interlocking protection.

P081/ 河南金箍®工业制动系统提供商

使用条件 Operating Condition

- 环境温度：-20℃～+40℃
- 海拔高度不超过2000米。
- 周围环境中，无爆炸危险介质及足以腐蚀金属和破坏绝缘的气体 and 导电尘埃。
- 相对湿度、空气相对湿度小于90%
- 安装时，摩擦盘和摩擦片及制动器内不得有油污和尘埃。
- 系列制动励磁线圈绝缘等级：B级。
- 制动器整流电源输入电压：AC380V，50Hz，工作方式为：S1或S3
- 有特殊要求时，在订货时协商确定。

OPERATING CONDITION

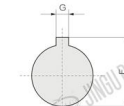
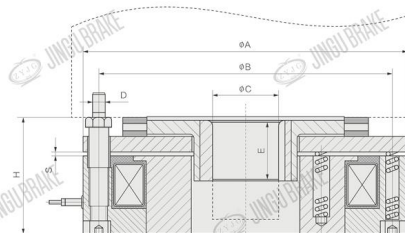
- Ambient temperature: -20℃～+40℃
- The altitude shall not exceed 2000 meters.
- Working condition: No risk of explosion conditions, gas and electrical arcing from which will corrode metal and damage the insulation.
- Air relative humidity less than 90%
- During installation, the friction disc, friction plate and brake shall be free of oil and dust.
- Series brake coil insulation class: B class.
- Input voltage of brake rectifier power supply: AC380V, 50Hz, working mode: S1 or S3
- Special requirements can be discussed before production.



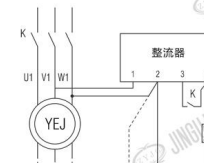
DJPZ系列 Series



DISC BRAKES 盘式制动器



- 注：序号1、2、3、4为接线端子，M为制动器线圈。
虚线为AC220V DC99V接线。



DJPZ系列电机盘式制动器技术参数 TECHNICAL PARAMETERS OF DJPZ SERIES MOTOR DISC BRAKES

表一

型号 Type	YEJ电机 YEJ motor		额定转矩 Nm Rated torque	额定功率 (20℃) w Rated power	接通时间 t1(s) Connection time	断开时间 t2(s) Off time	励磁电压 DC(V) Excitation voltage
	机座号 Motor number	额定功率 Rated power (kw)					
DJPZ114-18	90	1.1-1.2	18	60	0.12	0.11	99
DJPZ133-30	90	1.5-3	30	80	0.14	0.12	
DJPZ150-40	112	2.2-4	40	110	0.16	0.15	
DJPZ170-80	132	2.7-7.5	80	130	0.17	0.15	
DJPZ202-160	160	4-18.5	160	150	0.22	0.21	170
DJPZ244-230	180	11-22	230	150	0.25	0.23	
DJPZ280-400	200	15-37	400	200	0.33	0.31	
DJPZ300-530	225	22-35	530	200	0.37	0.35	

- 注：线圈功率指在20℃时，随选择输入电压不同允许有10%差异。 Note: The coil power refers to the difference of 10% with different input voltage at 20℃.

DJPZ系列电机盘式制动器外形尺寸 DIMENSIONS OF DJPZ SERIES MOTOR DISC BRAKES

表二

型号 Type	安装及外形尺寸 Dimensions (mm)										重量 Weight (kg)
	A	B	C	D	E	F	G	H	S	Smax	
DJPZ114-18	126	114	24.8	3×M6	25	28.1	8	59	0.4	1.0	4.7
DJPZ133-30	145	133	29.5	3×M6	30	32.8	8	60	0.4		5.4
DJPZ150-40	165	150	29.5	3×M8	30	32.8	8	62	0.5		7.8
DJPZ170-80	188	170	39.5	3×M8	30	42.8	12	75	0.5	1.2	9.8
DJPZ202-160	220	202	44.5	4×M10	35	47.8	12	90	0.6		16
DJPZ244-230	265	244	49	4×M10	40	52.8	14	108	0.6		22.7
DJPZ280-400	310	280	59	4×M12	50	63.4	18	117	0.8	1.5	36
DJPZ300-530	330	300	65	4×M12	55	69.4	18	127	0.8		42

- 注：S值为正常工作气隙。 Note: S value is normal working air gap.

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