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Safety brake Jingu control
安全制动·金箍掌控



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图例 / 图例 / 1321070353

安全化 / 高效化 / 系统化



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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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安全制动·金箍掌控

DRIVING DEVICE 驱动装置

Ed系列电力液压推动器

Ed SERIES ELECTRO-HYRAULIC THRUSTERS

应用 Application

- 电力液压推动器是一种集电机、离心泵、油缸为一体的，结构非常紧凑的驱动控制装置，广泛用作各种鼓式制动器和盘式制动器的驱动装置，还可用于各种工业阀门、闸门、定向摆动和旋转（ $<90^\circ$ ）装置及夹紧装置的驱动控制。

APPLICATION

- Electro-hydraulic thruster is a kind of drive control system, which is very compact in structure, and integrates electrical motor, centrifugal pump and oil cylinder. It is extensively used as drive mechanism of various drum and disc brakes, and as drive control of various industrial valves, penstock, directional pendulum and steering ($<90^\circ$) mechanism and clamping devices.

主要特点 Main Feature

- Ed系列推动器是引进德国进口全套设计与先进技术生产制造，符合德国DIN15430和JB/T 10603-2006为标准。Ed系列推动器零部件均由数控加工中心加工，从加工到装配，严格的工艺、完善的检测、可靠的性能及寿命试验确保了整机的最佳性能。
- 铝合金外壳全密封单推杆结构，重量轻，性能优良，外形美观。
- 电机为非油浸式结构，F级绝缘，耐热性能好，寿命长。
- 电机接线盒盖设有密封，采用电缆填料函进线，牢固可靠，电气外壳防护等级IP65。
- 电机轴和推杆均表面特殊处理，使密封件寿命大大延长。
- 油缸壳体在一侧设有平衡气室，可使推动器在 $0^\circ-180^\circ$ 任何方向安装使用。

MAIN FEATURE

- Ed series thrusters are designed and manufactured with advanced technology imported from Germany. They are accordance with German standards of DIN 15430 and JB/T 10603-2006. Ed series thruster parts are processed by CNC machining center, from processing to assembly, strict technology, perfect detection, reliable performance and life test ensure the best performance of the whole machine.
- Aluminum alloy shell fully sealed single push rod structure, light weight, excellent performance, beautiful appearance.
- Electrical motor is of non-under-oil structure, F grade insulation (according to customer's requirements), durable and good heat resistance.
- Cover of junction box is tightly sealed. Cable stuffing box is adopted for inlet wire, which is firm and reliable. Electrical protection of casing reaches IP65 grade.
- The surface of motor axle and pusher is handled specially to make the sealing parts much more durable.
- Balancing air house is set at one side of oil cylinder casing, which can make the thruster to be installed at any direction within range of $0^\circ-180^\circ$ and enlarge the using range.

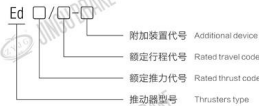
使用条件 Operating Condition

- 环境温度： $-20^\circ\text{C}\sim+50^\circ\text{C}$ 时，用DB-25液压油，低于 -20°C 时用YH-10航空液压油，可不装加热器，用DB-25液压油，必须装加热器。
- 连续工作S1，断续工作AS3-60%
- 电源电压：3相、交流380V、50Hz（其它电源等级可按需要协商订货）
- 使用地点的海拔高度符合GB755-2019标准。

OPERATING CONDITION

- Ambient temperature: $-20^\circ\text{C}\sim+50^\circ\text{C}$ using DB-25 hydraulic oil, lower than -20°C with YH-10 aviation hydraulic oil, not mounted heaters; using DB-25 hydraulic oil must be retrofitted with heaters.
- Continuous operation S1, intermittent operation AS3-60%
- Voltages: AC 3 phase 380V, 50Hz (Other voltage can be made as required)
- The altitude of the site is in accordance with the GB755-2019 standard.

型号意义 Model Significance



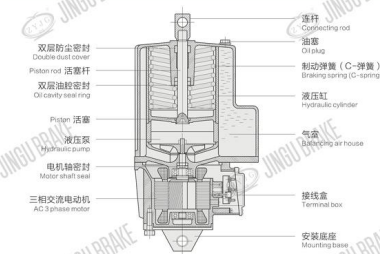
推动器附加装置 ADDITIONAL FUNCTION TABLE

功能代号 Function code	表示意义 Model Significance
C	制动弹簧 Brake spring
W	复位弹簧 Reset spring
R	缓冲弹簧 Buffer spring
H	上升延时阀 Rise delay valve
S	下降延时阀 Descent delay valve
E1	上升机械行程开关 Increased mechanical limit switch
E2	下降机械行程开关 Decline mechanical limit switch
EB	感应行程开关 Inductive limit switch
R	加热器 Heater



DRIVING DEVICE 驱动装置

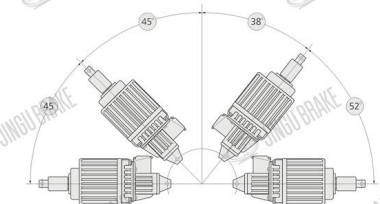
推动器剖视图 Thruster Section View



安装方式的选择 Selection of installation mode

- 垂直安装：活塞杆连接块朝上。
- 水平安装和中间任意位置：安装形式如下图所示。
- 所有推动器的推杆连接块都可以旋转。Ed50-Ed301安装底座可作 90° 旋转，Ed23-Ed30安装底座也可提供 90° 旋转，但安装高度尺寸A增加8毫米。
- 无论何种安装位置，活塞杆都不能承受径向力，以免影响使用寿命。

- Vertical installation: the connecting block of piston rod is upward.
- Horizontal installation and any position in the middle: the installation form is shown in the figure below.
- The push rod of all pushers can rotate with lumps. Ed50-Ed301 mounting base can be used for 90° Rotation. Ed23-Ed30 mounting base can also provide 90° Rotate, but increase the mounting height dimension A by 8 mm.



附加装置 Additional devices

- 根据用户需要可安装各种附加装置，满足不同工作需要。
- 上升或下降阀：加装上升阀“H”，下降阀“S”或上升下降阀“H、S”可使上升下降时间无限延长，可调整的最大值可达额定值的10-20倍，阀在外部调节。带阀的推动器（阀全开时），其上升下降时间将会有所延长，短行程延长0.1-0.2秒，长行程延长约0.2-0.4秒。
- 制动弹簧：（C-弹簧）它产生的制动力，可由用户确定，但不得超过技术数据中所列内置制动力，技术数据表中所列的制动力值为上升行程的1/3（下降行程的2/3）时的制动力。
- 复位弹簧：工作原理同C-弹簧，但复位的制动力较小。
- 缓冲弹簧：（d-弹簧）加缓冲弹簧（仅适用于短行程推动器），主要调节制动过程：缓冲制动的非周期瞬变过程，使制动平稳，它代替推杆连杆在活塞杆上，不改变推动器的行程。注意：安装d-弹簧的推动器不能装行程开关且须和C-弹簧配套使用。
- 加热器：在环境温度低于 -20°C 的地区，可根据用户需要加装加热器，加热器为AC110V或AC220V两种电压，订货时需注明、温度的控制调节方法由用户自己选择。
- 行程开关：根据用户需求，可安装机械式行程开关或接近开关。

ADDITIONAL DEVICES

- According to the needs of users, various additional devices can be installed to meet different work needs.
- Increased or decreased valves: increased retrofit by valve "H", dropped valve "S", increase or dropped valve "H、S" can rise fall time continuously extended, you can adjust the maximum values up to 10-20 times of the rated value, and the valve can be adjusted externally. When the valve is fully open, the rising and falling time of the pusher with valve will be extended, the short stroke will be extended by 0.1-0.2 seconds, and the long stroke will be extended by about 0.2-0.4 seconds.
- Brake spring: (C-spring) the brake force generated by it can be determined by the user, but it shall not exceed the built-in brake spring force listed in the technical data sheet. The brake spring force listed in the technical data sheet is the spring force when 1/3 of the up stroke (2/3 of the down stroke).
- Reset spring: the working principle is the same as C-spring, but the force of reset spring is small.
- Buffer spring: (d-spring) plus buffer spring (only applicable to short stroke pusher), mainly adjusts the braking process. Buffer braking non-periodic transient process, makes the braking stable. It instead of push rod connecting rod, without changing the stroke of the pusher. Note: the pusher with d-spring cannot be equipped with limit switch, and must be used with C-spring.
- Heater: in the area where the ambient (temperature is lower than -20°C , the heater can be installed according to the user's needs. The heater has two kinds of voltage: AC110V or AC220V, indicate when ordering. Temperature control method is used by the user's own choice.
- Limit switch: according to the user's requirements, a propulsion system can be mounted with mechanical limit switch or proximity switches.

加热器参数值 HEATER PARAMETERS

加热器型号 Heater type	推动器型号 Thrusters type						
	Ed23	Ed30	Ed50	Ed80	Ed121	Ed201	Ed301
AC110V时功率 (W)	220	220	350	350	350	350	350
AC220V时功率 (W)							

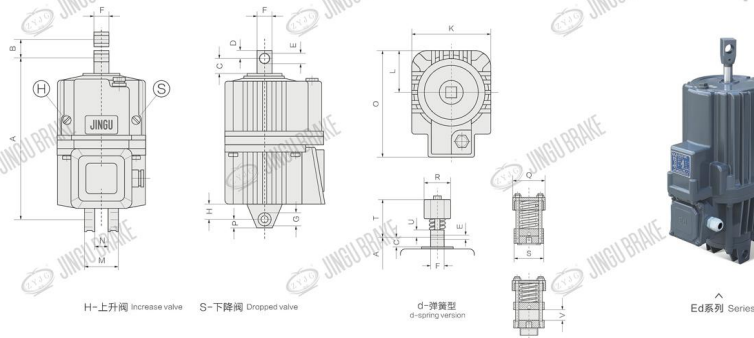


安全制动·金箍掌控

DRIVING DEVICE 驱动装置

安装及外形尺寸 Outline And Installation Dimension

型号 Type: Ed23-Ed80



Ed 系列电力液压推动器技术参数 TECHNICAL DATA OF ED SERIES ELECTRO-HYDRAULIC THRUSTERS

表一

推动器型号 Thruster type	额定推力 Rated thrust (N)	额定行程 Rated stroke (mm)	制动弹簧力 Brake spring force (N)	复位弹簧力 Reset spring force (N)	额定频率 Rated frequency (Hz)	输入功率 Input power (W)	额定电压 Rated voltage (V)	额定电流 Rated current (A)	最大工作频率 Maximum operating frequency (Hz)	重量 Weight (kg)
短行程推动器 Short-stroke propulsion system										
Ed 23/5	220	50	180	105	50	165	380	0.52	2000	10
Ed 30/5	300	50	270	95	50	200	380	0.46	2000	14
Ed 40/4	400	40	270	95	50	200	380	0.46	2000	14
Ed 50/6	500	60	460	267	50	210	380	0.50	2000	21
Ed 70/6	700	50	460	267	50	210	380	0.50	2000	21
Ed 80/6	800	60	750	267	50	330	380	1.42	2000	24
Ed 121/6	1250	60	1200	700	50	330	380	1.44	2000	39
Ed 201/6	2000	60	1900	700	50	450	380	1.45	2000	39
Ed 301/6	3000	60	2700	700	50	550	380	1.46	1500	40
长行程推动器 Long-stroke propulsion system										
Ed 50/12	500	120	—	—	50	210	380	0.48	1200	26
Ed 80/12	800	120	—	—	50	330	380	1.42	1200	27
Ed 121/12	1250	120	—	—	50	330	380	1.44	1200	39
Ed 201/12	2000	120	—	—	50	450	380	1.45	1200	39
Ed 301/12	3000	120	—	—	50	550	380	1.46	900	40
Ed 630/12	6300	120	—	—	50	1100	380	2.4	630	—

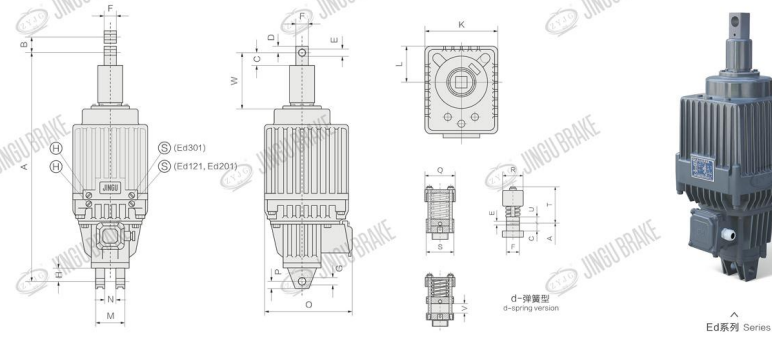
P091/ 河南金箍®工业制动系统提供商



DRIVING DEVICE 驱动装置

安装及外形尺寸 Outline And Installation Dimension

型号 Type: Ed121-Ed630



Ed 系列电力液压推动器外形尺寸 DIMENSIONS OF ED SERIES ELECTRO-HYDRAULIC THRUSTERS

表二

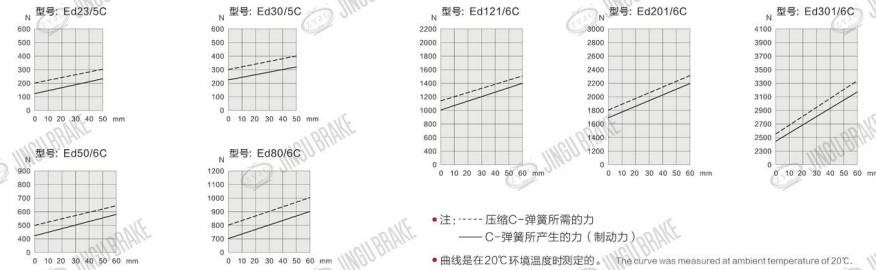
推动器型号 Thruster type	安装及外形尺寸 Dimensions (mm)																		
	A	B	C	D	E	F	G	H	K	L	M	N	O	P	Q	R	S	T	U
Ed 23/5	286 ^①	50	26	12	12	20	16	20	160	80	80	40	200	16	85	55	75	98	20
Ed 30/5	370 ^②	50	34	15	16	25	16	18	160	80	80	40	197	16	85	55	75	98	20
Ed 40/4	377	40	41	15	16	30	16	23	190	95	80	40	197	16	—	—	—	—	—
Ed 50/6	435	60	36	18	20	30	20	23	190	95	120	60	254	22	85	55	75	100	22
Ed 70/5	430	50	31	17	—	—	—	24	—	—	100	41	—	—	—	—	—	—	—
Ed 80/6	450	60	—	—	—	—	—	—	—	—	—	—	—	—	85	55	75	100	22
Ed 50/12	515	120	36	18	20	30	20	23	190	95	120	60	254	22	—	—	—	—	—
Ed 80/12	530	120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ed 121/6	645	60	38	25	25	40	25	35	240	112	90	40	260	25	130	80	120	147	35
Ed 201/6																			
Ed 301/6																			
Ed 121/12	705	120	38	25	25	40	25	35	240	112	90	40	260	25	—	—	—	—	190
Ed 201/12																			
Ed 301/12																			
Ed 630/12	865	120	38	25	25	40	25	40	270	127	110	60	327	25	—	—	—	—	—

* ① 旋转 90° 时, A=294 ② 旋转 90° 时, A=378 ③ A=294 ④ 当旋转 90° 时, A=378

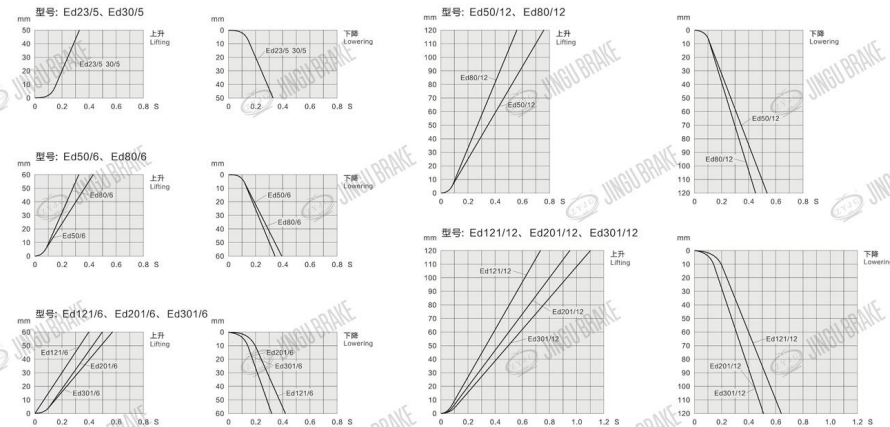
* 注: 具体型号、结构及外形尺寸保留更改的权利。 Note: The size of the specific type and structure should be retained.

JINGU BRAKES / P092

C-弹簧曲线 C-Spring coil curve



行程时间曲线 Route of travel time curve



ZED 交直流两用电力液压推动器 ZED AC DUAL-PURPOSE ELECTRO-HYDRAULIC THRUSTERS

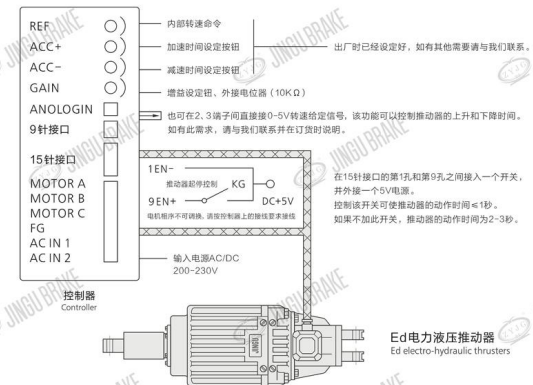
应用 Application

- Zed系列交直流两用电力液压推动器, 是我公司在Ed推动器的基础上自行研制的专利产品, 采用先进的无刷电机, 辅以数字控制电路, 适用于DC220V、AC220V的供电系统; 具有启动平稳, 噪音低, 抗干扰和节能环保等特点。广泛用于以前使用变频器的场合, 以提高系统的性能(调速范围、精度), 降低成本。

APPLICATION

- Zed series AC/DC dual-purpose electro-hydraulic thruster is a patented product developed by our company on the basis of Ed thruster. It adopts advanced brushless motor and digital control circuit, which is suitable for DC 220V and AC 220V power supply system. It has the characteristics of stable starting, low noise, anti-interference, energy saving and environmental protection. It is widely used in previous occasions where frequency converter is used to improve system performance (speed range, precision) and reduce cost.

电气原理图 Electrical schematic diagram



使用条件 Operating Condition

- 环境温度: $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$
当温度低于 -20°C 时, 需要装加热器或使用HY-10航空油;
- 空气相对湿度: 不大于90%;
- 通电持续率: 0~100%;
- 室内使用, 并且周围环境符合GB/T15957的相关规定。
- 有特殊要求时, 在订货时协商确定。

OPERATING CONDITION

- Ambient temperature: $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$
When the temperature is lower than -20°C , it is necessary to install heater or use hy-10 aviation oil;
- Air relative humidity: $\leq 90\%$;
- Electric continuous rate: 0~100%;
- Indoor use, and the surrounding environment accords with the relevant provisions of GB/T15957.
- Special requirements can be discussed before production.

主要特点 Main Feature

- 该产品由控制器和Ed电力液压推动器两部分组成。
- 注意: 在控制器带电或两个LED灯发光期间, 禁止打开控制器或接触控制盒内部, 否则有触电的危险!

MAIN FEATURE

- The product consists of controller and Ed electro-hydraulic thruster.
- Note: when the controller is charged or two LED lights are on, it is forbidden to open the controller or touch the interior of the controller, otherwise the danger of electric shock!

- 该产品技术参数和外形尺寸均与Ed相同, 本说明恕不再赘述。请参照Ed系列电力液压推动器。
The technical parameters and dimensions of the product are the same as those of Ed, so this description will not be repeated.

YT₁系列电力液压推动器YT₁ SERIES ELECTRO-HYDRAULIC THRUSTERS

应用 Application

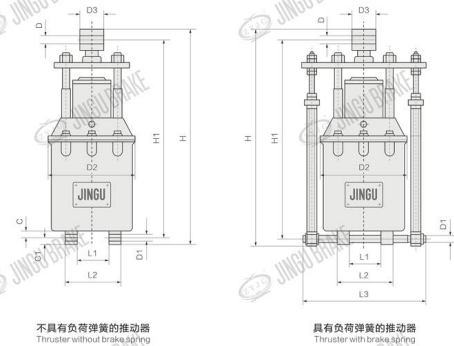
- YT₁系列电力液压推动器是一种集电机、离心泵、油缸为一体的，结构非常紧凑的驱动控制装置，用作YWZ_a、YWZ₃等系列鼓式制动器及盘式制动器的驱动装置，还可用于各种工业阀门、闸门、定向摆动和转动（垂直向上安装）装置（机构）及夹紧装置的驱动控制。

APPLICATION

- YT₁ series electro-hydraulic thruster is a kind of drive control system, which is very compact in structure, and integrates electrical motor, centrifugal pump and oil cylinder. It is extensively used as drive mechanism of various YWZ_a and YWZ₃ series drum and disc brakes, drive control of various industrial valves, penstock, directional pendulum and steering (installed upward vertically) mechanism, and clamping devices as well.

- YT₁系列电力液压推动器的绝缘等级为B级，外壳防护等级为IP54。
- The insulation grade of YT₁ series electric hydraulic thruster is grade B, and the protection grade of shell is IP54.

安装及外形尺寸 Outline And Installation Dimension

不具有负荷弹簧的推动器
Thruster without brake spring具有负荷弹簧的推动器
Thruster with brake springYT₁系列 Series

型号意义 Model Significance



推动器附加装置 ADDITIONAL FUNCTION TABLE

功能代号 功能 code	表示意义 Model Significance
E1	上升机械式行程开关 Increased mechanical limit switch
E2	下降机械式行程开关 Decline mechanical limit switch
EB	感应式行程开关 Inductive limit switch

YT₁系列电力液压推动器技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF YT₁ SERIES ELECTRO-HYDRAULIC THRUSTERS

推动器型号 Thruster type	额定推力 Rated thrust (kg)	额定行程 Rated stroke (mm)	电动机容量 Motor capacity (kw)	额定电压 Rated voltage (V)	额定电流 Rated current (A)	动作时间 (s)		频率 Frequency (Hz)	安装及外形尺寸 Dimensions (mm)										重量 Weight (kg)
						上升 Up	下降 Down		D	D1	D2	D3	H	H1	L1	L2	C	C1	
YT1-18ZB/2	18	25	0.06	380	0.28	0.6	0.4	720	12	12	137	25	343	321	25	50	15	12	9
YT1-25ZB/4	25	40	0.08	380	0.32	0.7	0.4	720	12	16	154	25	386	360	32	64	18	16	12
YT1-25ZC/4													408	380					
YT1-45Z/4	45	40	0.14	380	0.39	0.7	0.4	720	16	20	178	30	496	460	47	94	23	20	18
YT1-45Z/5		50																	
YT1-45Z/6		60																	
YT1-90Z/6	90	60	0.25	380	0.62	0.8	0.5	720	20	26	210	40	600	555	60	120	30	25	28
YT1-90Z/8		80																	
YT1-125Z/10	125	100	0.4	380	0.98	0.75	0.6	720	25	25	254	50	745	695	40	90	30	25	52
YT1-180Z/8		80																	
YT1-180Z/10		100																	
YT1-180Z/12	180	120	0.4	380	0.98	1	0.6	720	25	30	254	50	820	765	85	170	40	30	55
YT1-320Z/12		120																	
YT1-320Z/20		200																	
YT1-320Z/20	320	120	1.5	380	3.4	0.9	0.9	720	35	35	375	55	877	815	100	190	44	35	125
YT1-320Z/20		200				2.4	2	470					957	895					135

推动器型号 Thruster type	弹簧制动力 Braking spring force (kg)	额定行程 Rated stroke (mm)	电动机容量 Motor capacity (kw)	额定电压 Rated voltage (V)	额定电流 Rated current (A)	动作时间 (s)		频率 Frequency (Hz)	安装及外形尺寸 Dimensions (mm)										重量 Weight (kg)	
						上升 Up	下降 Down		D	D1	H	D3	H1	L1	L2	L3	C	C1		
YT1-25/4	20	40	0.08	380	0.32	0.7	0.4	720	12	16	408	25	380	32	64	228	18	16	14	
YT1-45/6	40	60	0.12		0.39	0.7	0.4		16	20	496	30	460	47	94	266	23	20	21	
YT1-90/8	70	80	0.25		0.62	0.8	0.5		20	25	600	40	555	60	120	320	30	25	31	
YT1-125/10	90	100	0.4		0.98	0.75	0.6		25	25	745	50	695	40	90	390	30	25	56	
YT1-180/12	105	120	0.4	380	0.98	1	0.6	720	25	30	820	50	765	85	170	420	40	30	60	
YT1-320/12	280	120	1.1		2.6	0.9	0.9		35	35	995	55	930	100	190	515	44	35	160	
YT1-320/20	250	200				2.4	2				1100		1035						170	

*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.

BEd系列隔爆型电力液压推动器

BEd SERIES EXPLOSION PROTECTED ELECTRO-HYDRAULIC THRUSTERS

应用 Application

- BEd系列隔爆型电力液压推动器，主要用途是作为电力液压鼓式制动器的驱动装置，也可通过杠杆机械完成往复、圆周、摆动等形式的快速运动，适用于起重、运输、冶金、矿山、港口、建筑等行业。
- 其隔爆性能符合GB3836.2-2010《爆炸性环境用防爆电气设备、隔爆型电气设备“D”》的规定，防爆标志为ExdI Mb、ExdII CT4，分别用于煤矿井下及IIA、IIB（II类A级、II类B级）温度组别为T1-T4组可燃气体或蒸汽与空气形成的爆炸性混合物场所。

APPLICATION

- BEd series explosion protected electro-hydraulic thruster is mainly used as the driving device of electric hydraulic drum brake. It can also complete reciprocating, circular, swinging and other forms of rapid movement through lever machinery. It is suitable for lifting, transportation, metallurgy, mining, port, construction and other industries.
- Its explosion-proof performance conforms to GB3836.2-2010 "explosion-proof electrical equipment, explosion-proof electrical equipment "D" for explosive environment. The explosion-proof signs are ExdI Mb and ExdII CT4, which are respectively used in coal mines and places where the temperature groups of IIA and IIB (class IIA and class IIB) are T1-T4 combustible gas or explosive mixture formed by steam and air.



BEd系列 Series

BEd系列隔爆推动器技术参数 TECHNICAL DATA OF BEd SERIES EXPLOSION PROTECTED ELECTRO-HYDRAULIC THRUSTERS

表一

推动器型号 Thrustur type	额定推力 Rated thrust (N)	额定行程 Rated stroke (mm)	制动力 Brake force (N)	功率 Power (W)		额定电流 Rated current (A)	工作频率 Operating frequency (1/h)	重量 Weight (kg)		动作时间 Action time (s)		额定电压 Rated voltage (V)
				d I	dII CT4			Exd I	ExdII CT4	d I	dII CT4	
短行程推动器 Short stroke propulsion system												
BEd 30/5	300	50	270	200	200	0.46	1500	36	36	0.37	0.36	380
BEd 50/6	500	60	460	330	330	1.2		52	52	0.62	0.61	
BEd 80/6	800		750	330	330	1.42		53	53	0.5	0.49	
BEd 121/6	1250	60	1200	365	365	1.44	1500	76	76	0.58	0.54	380
BEd 201/6	2000		1900	450	450	1.45		78	78	0.57	0.46	
BEd 301/6	3000		2700	550	550	1.46		79	79	0.74	0.44	
长行程推动器 Long stroke propulsion system												
BEd 501/12	500	120	240	275	1.2	900	62	62	1.02	0.72	380	
BEd 801/12	800		290	280	1.42		63	63	0.83	0.65		
BEd 1211/12	1250	120	—	365	310	1.44	79	79	0.99	0.81	380	
BEd 2011/12	2000		—	375	385	1.45	81	81	1.10	0.65		
BEd 3011/12	3000		—	445	470	1.46	83	83	1.31	0.64		

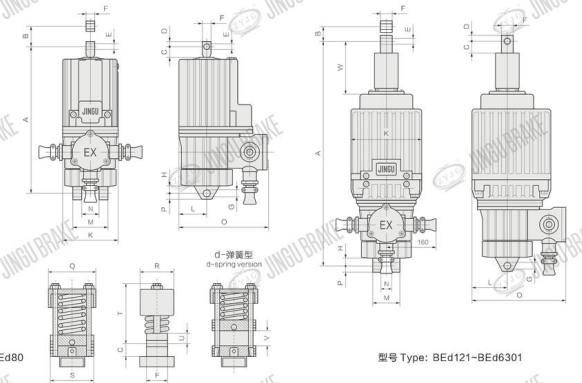
使用条件 Operating Condition

- 海拔高度不超过1000m
- 环境温度：-20℃~+40℃
- 安装地点最湿月的月平均最大相对湿度不超过90%
- 周围环境的污染等级允许为3级
- 电源电压：三相交流，额定电压为127V、220V、380V、660V、1140V、50Hz (60Hz)
- 有特殊要求时，在订货时协商确定。

OPERATING CONDITION

- Altitude not exceeding 1000m
- Ambient temperature: -20℃~+40℃
- The monthly average maximum relative temperature of the wettest month in the installation site shall not exceed 90%.
- The pollution level is allowed to be 3.
- Voltages: three-phase AC, frequency is 50Hz, rated voltage is 127V, 220V, 380V, 660V, 1140V.
- Special requirements can be discussed before production.

安装及外形尺寸 Outline And Installation Dimension



型号 Type: BEd30~BEd80

型号 Type: BEd121~BEd6301

BEd系列隔爆推动器外形尺寸 DIMENSIONS OF BEd SERIES EXPLOSION PROTECTED ELECTRO-HYDRAULIC THRUSTERS

表二

推动器型号 Thrustur type	安装及外形尺寸 Dimensions (mm)																		
	A	B	C	D	E	F	G	H	K	L	M	N	O	P	Q	R	S	T	U
BEd 30/5	410	50	34	15	16	25	16	18	160	80	80	40	285	16	85	55	75	98	20
BEd 50/6	490	60	36	18	20	30	26	23	190	95	120	60	308	20	85	55	75	100	22
BEd 80/6																			
BEd 50/12																			
BEd 80/12	570	120	36	18	20	30	20	23	190	95	120	60	308	20	—	—	—	—	—
BEd 121/6	690	60	38	25	25	40	25	35	240	112	90	40	325	25	130	80	120	147	35
BEd 201/6																			
BEd 301/6																			
BEd 1211/12	750	120	38	25	25	40	25	35	240	112	90	40	325	25	—	—	—	—	190
BEd 2011/12																			
BEd 3011/12																			
BEd 6301/12	910	120	38	25	25	40	25	35	270	130	90	40	346	25	—	—	—	—	—

*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.

BYT₁系列隔爆型电力液压推动器BYT₁ SERIES EXPLOSION PROTECTED ELECTRO-HYDRAULIC THRUSTERS

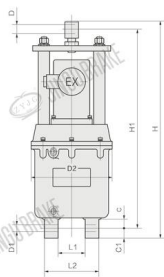
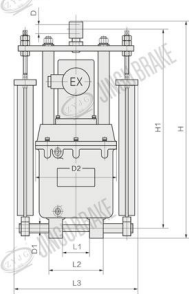
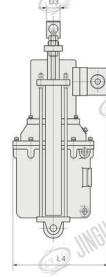
应用 Application

- BYT₁系列隔爆型电力液压推动器是一种集电机、离心泵、油缸为一体，机构紧凑的驱动装置，广泛用于各种鼓式制动器和盘式制动器的驱动装置。
- BYT₁ series explosion-proof electric hydraulic thruster is a compact driving and mounting control device integrating motor, centrifugal pump and oil cylinder. It is widely used in the driving devices of various drum brakes and disc brakes.

符合标准 Standards Compliant

- 其隔爆性能符合GB3836.1-2010《爆炸性环境第一部分：设备通用要求》、GB3836.2-2010《爆炸性环境第二部分：由隔爆外壳“D”保护的设备的》规定，防爆标志为：ExdI。
- Its flameproof performance complies with GB3836.1-2010 explosive atmospheres part 1: General requirements for equipment and GB3836.2-2010 explosive atmospheres part 2: equipment protected by flameproof enclosure "D". The explosion-proof mark is ExdI.

安装及外形尺寸 Outline And Installation Dimension

不具有负荷弹簧的推动器
Thruster without brake spring具有负荷弹簧的推动器
Thruster with brake springBYT₁系列 Series

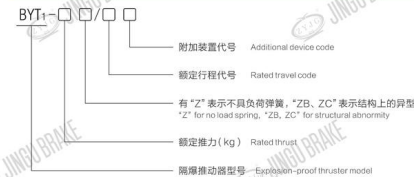
使用条件 Operating Condition

- 环境温度：-20℃~+40℃
- 安装地点最湿月的月平均最大相对湿度不超过90%
- 海拔高度不超过1000m
- 周围环境的污染等级允许为3级
- 电源为三相交流：380V/660V、660V/1140V、50Hz (60Hz)
- 有特殊要求时，在订货时协商确定。

OPERATING CONDITION

- Ambient temperature: -20℃~+40℃
- The monthly average maximum relative temperature of the wettest month in the installation site shall not exceed 90%.
- The altitude shall not exceed 1000m.
- The pollution level of the surrounding environment is allowed to be level 3.
- Voltages: AC 3 phase, 380V/660V, 660V/1140V, 50Hz (60Hz).
- Special requirements can be discussed before production.

订货标记 Order Mark



推动器附加功能表 PUSHER ADDITIONAL MENU

功能代号 Function code	表示意义 Express meaning
E1	上升机械式行程开关 Rising mechanical travel switch
E2	下降机械式行程开关 Down mechanical travel switch
E3	感应式行程开关 Inductive travel switch

BYT₁系列隔爆推动器技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF BYT₁ SERIES EXPLOSION PROTECTED THRUSTERS

推动器型号 Thruster type	额定推力 Rated thrust (kg)	额定行程 Rated stroke (mm)	电动机容量 Motor capacity (kw)	额定电压 Rated voltage (V)	额定电流 Rated current (A)	动作时间 (s)		频率 frequency (c/s)	安装及外形尺寸 Dimensions (mm)											重量 Weight (kg)	
						上升 Up	下降 Down		D	D1	D2	D3	H	H1	L1	L2	L4	C	C1		
BYT ₁ -18ZB/2	18	25	0.06	380	0.32	0.6	0.4	720	12	12	137	25	343	321	25	50	229	15	12	10	
BYT ₁ -25ZB/4	25	40	0.06	380	0.32	0.7	0.4	720	12	16	154	25	386	360	32	64	237	18	16	13	
BYT ₁ -25ZC/4													408	380							
BYT ₁ -45Z/4	45	40	0.14	380	0.45	0.7	0.4	720	16	20	178	30	496	460	47	94	244	23	20	20	
BYT ₁ -45Z/5		50																			
BYT ₁ -45Z/6		60																			
BYT ₁ -90Z/6	90	60	0.25	380	0.58	0.8	0.5	720	20	25	210	40	600	555	60	120	270	30	25	30	
BYT ₁ -90Z/8		80																			
BYT ₁ -125Z/10	125	100	0.4	380	0.7	0.75	0.6	720	25	25	254	50	745	695	40	90	295	30	25	55	
BYT ₁ -180Z/8	180	80	0.4	380	0.7	1	0.6	720	25	30	254	50	820	765	85	170	295	40	30	56	
BYT ₁ -180Z/10		100																			
BYT ₁ -180Z/12		120																			
BYT ₁ -320Z/12	320	120	1.1	380	2.5	0.9	0.9	720	35	35	375	55	877	815	100	190	433	44	35	130	
BYT ₁ -320Z/20		200																			
										安装及外形尺寸 Dimensions (mm)											重量 Weight (kg)
BYT ₁ -25/4	20	40	0.06	380	0.32	0.7	0.4	720	12	16	408	25	380	32	64	228	237	18	16	15	
BYT ₁ -45/6	40	60	0.12		0.45	0.7	0.4		16	20	496	30	460	47	94	266	244	23	20	23	
BYT ₁ -90/8	70	80	0.25		0.58	0.8	0.5		20	25	600	40	555	60	120	320	270	30	25	33	
BYT ₁ -125/10	90	100	0.4		0.7	0.75	0.6		25	25	745	50	695	40	90	390	295	30	25	59	
BYT ₁ -180/12	105	120	0.4		0.7	1	0.6		25	30	820	50	765	85	170	420	295	40	30	63	

*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.

DYT系列电液推杆

DYT SERIES ELECTRO-HYDRAULIC PUSHERS

应用 Application

- DYT系列电液推杆是一种集机、电、液为一体的液压驱动机械手，适合于需要往复推拉直线或往复旋转一定角度的运动，也可用于需要上升、下降或夹紧工作物的场所，并可实现远离危险地区的集中和自动控制。广泛用于冶金、矿山、电力、煤炭、机械、交通、化工、水利、建材、运输等部门，是一种通用的动力源。

APPLICATION

- DYT series electro-hydraulic push rod is a set of mechanical, electrical, hydraulic as one of the hydraulic drive manipulator, suitable for reciprocating push-pull straight line or reciprocating rotation of a certain angle of movement, can also be used for the need to rise, fall or clamp work place, and can realize the centralized and automatic control of remote dangerous areas. Widely used in metallurgy, mining, electric power, coal, machinery, transportation, chemical industry, cement, water conservancy, building materials, transportation and other departments, is a general power source.

主要特点 Main Feature

- 结构紧凑、安装方便、占据空间小、维护简单。
- 回路设有双向液压锁，可停在规定行程范围内的任意位置停止并自锁，且保持输出力不变。
- 推拉力、速度（用户要求）无极可调，驱动力范围极广。
- 因故断电，推杆自锁，避免发生事故。
- 采用全液压传动、动作灵敏、运行平稳，能有效缓冲外来冲击力，行程控制精确。
- 机电液一体化全封闭结构，工作油路循环于无压的封闭钢筒里，体积小，不渗油，在恶劣的工作环境下，不吸尘，不进水，内部不锈蚀，使用寿命长。
- 电器控制简单，通过增设各种限位开关，实现远程和危险区域的计算机（PLC）自动控制。

MAIN FEATURE

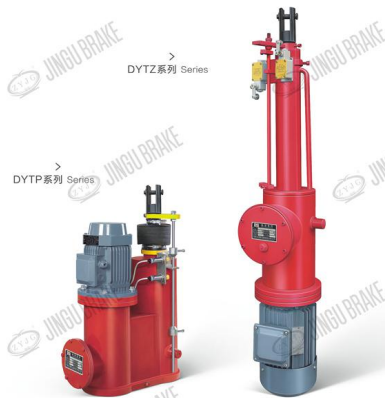
- Compact structure, easy installation, small occupying space and simple maintenance.
- A two-way hydraulic lock is arranged in the loop, which can be stopped at any position within the prescribed travel range and self locked, and the output force remains unchanged.
- Push pull, speed (user requirements) stepless adjustable, driving force range is very wide.
- Therefore, the power is cut off and the push rod is self locked to avoid accidents.
- It adopts full hydraulic transmission, sensitive action and smooth operation, which can effectively buffer external impact force and precise stroke control.
- Mechanical and hydraulic integrated closed structure, working oil circulation in the pressure free closed steel cylinder, small volume, no oil seepage, in bad working environment, no dust. No water, no corrosion inside, long service life.
- Electrical control is simple. By adding various limit switches, it is easy to realize remote control and dangerous area operation control, and computer (PLC) automatic control.

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（其它电源电压下的电流参数请与我们技术人员联系）
- 适应的工作制：S3，40% 接电持续率
- 有特殊要求时，在订货时协商确定。

OPERATING CONDITION

- Ambient temperature: -20℃ ~ +50℃
- Relative humidity: The relative humidity of the air is not more than 90%
- Voltages: AC 3-phase 380V/50Hz (Other voltage can be made as required)
- Operating duty: intermittent (S3, 40%)
- Special requirements can be discussed before production.



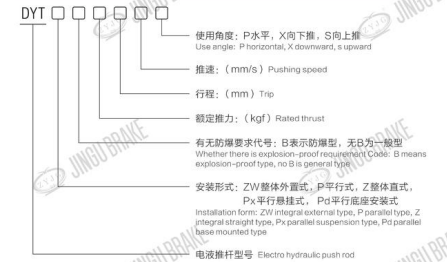
工作原理 Working Principle

- 电液推杆是一种机、电、液一体化的新型柔性传动机构，它以执行机构（油缸）、控制机构（电压控制阀组）和动力源（油泵电机等）组成。根据现场安装空间及用户使用情况电液推杆可以多种结构形式（具体见电液推杆外形安装尺寸图，也可根据用户要求定制样式）。
- 电动机通过正反转驱动双向液压泵正反转输出压力油，经液压控制阀送至油缸，实现活塞杆的往复运动。

WORKING PRINCIPLE

- The electro-hydraulic push rod is a new type of flexible transmission mechanism integrating mechanical, electrical and hydraulic. It is composed of actuator (oil cylinder), control mechanism (voltage control valve group) and power source (oil pump motor, etc). According to the on-site installation space and user use, the electro-hydraulic push rod can have a variety of structural forms (see the outline installation dimension drawing of electro-hydraulic push rod for details). You can also customize the style according to user requirements.
- The motor drives the bidirectional hydraulic pump forward and reverse to output the pressure oil through positive and negative reversals, and sends it to the oil cylinder through the hydraulic control valve to realize reciprocating motion of the piston rod.

订货标记 Order Mark



- 用户对外形尺寸、安装方式如有特殊要求，可按照用户要求设计。
If the user has special requirements for the external dimension and installation method, it can be designed according to the user's requirements.

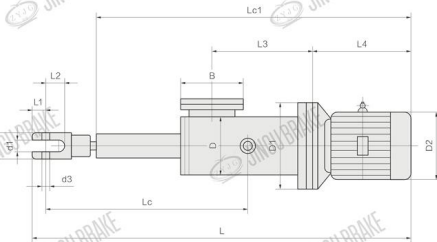
DYT系列电液推杆技术参数 TECHNICAL DATA OF DYT SERIES ELECTRO-HYDRAULIC PUSHER

表一

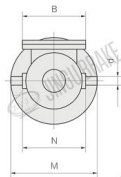
产品型号 Product type	额定力 Rated force (kgf)		额定速度 Rated speed (mm/s)		电机功率 Motor power (KW)	行程制造范围 Stroke range (mm)	速度制造范围 Speed range (mm/s)
	推力 Thrust force	拉力 Pulling force	推速 Pushing speed	拉速 Pulling speed			
DYT-100	100	75	70/110/185	90/145/245	0.55/0.55/0.55	5-800	0-250
DYT-300	300	200	45/70/115	65/100/145	0.55/0.55/0.75	5-1000	0-250
DYT-450	450	300			0.55/0.75/0.75		
DYT-750	750	500	45/70/100	65/100/165	0.75/1.1/1.1	5-1500	0-150
DYT-1000	1000	700			1.1/1.5/2.2		
DYT-1750	1750	1300	45/70/100	65/100/165	1.5/2.2/2.2	5-1500	0-150
DYT-2500	2500	1900	36/60/97	53/90/144	1.5/2.2/3.0	5-2000	0-100
DYT-3000	3000	2200	45/70	68/108	2.2/3.0	5-2500	0-100
DYT-4000	4000	3000	35/65	53/85			0-80
DYT-5000	5000	3800	30/45	39/63	2.2/3.0	5-2500	0-60
DYT-6000	6000	4500		33/52	3.0/4.0	5-3000	
DYT-8000	8000	6500	25/38	33/47	3.0/4.0	5-3000	0-50
DYT-10000	10000	7700			4.0/5.5		
DYT-15000	15000	11500	24/33	33/42	5.5/5.5	5-3000	0-33
DYT-20000	20000	16000	23	28	5.5		0-23

• 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



型号示例: DYTZW450-400/45

• 整体外置式电液推杆
Integral external electro-hydraulic push rod

结构性能 Structure Performance

• 液压控制阀组主要由溢流阀, 吸油单向阀, 单向阀, 调速阀(用户要求), 液控单向阀(液锁)等组成; 也可根据电液推杆的工作特性, 设计不同功能的油路组合阀, 满足其工作的要求。一般有推出自锁, 拉回自锁和推拉均自锁; 运行速度有可调速型, 不可调速型; 电液推杆工作角度有水平推, 向上推(包括斜向上), 向下推(包括斜向下)等多种形式。

STRUCTURE PERFORMANCE

• The hydraulic control valve group is mainly composed of overflow valve, oil suction check valve, check valve, speed control valve, hydraulic control check valve, etc. according to the working characteristics of electro-hydraulic push rod, the oil circuit combination valve with different functions can be designed to meet its working requirements. Generally, there are push-out self-locking, pull back self-locking and push-pull self-locking; The running speed has adjustable type and non adjustable type; The working angles of the electro-hydraulic push rod are horizontal push, upward push, downward push and so on.

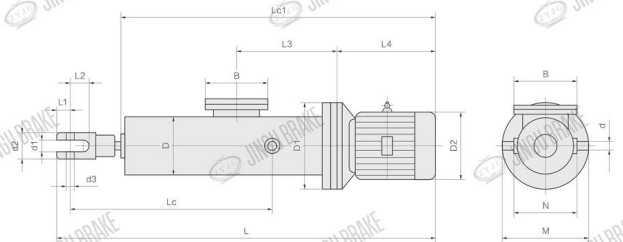
DYTW系列电液推杆技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF DYTZW SERIES ELECTRO-HYDRAULIC PUSHER

表二

产品型号 Product type	推力 Thrust (kg)	推速 Pushing speed (mm/s)	安装及外形尺寸 Dimensions (mm)															
			Lc	Lc1	L	L1	L2	L3	L4	Ød	d1	Ød2	Ød3	D	D1	D2	M	N
DYTZW-100	100	70/110/185	323+S	676+S	776+S	17	27	322	246	20	14	30	10	146	200	175	230	180
DYTZW-300	300	45/70/115	341+S	686+S	801+S	24	30	322	246	20	18	40	12	146	200	175	230	180
DYTZW-450	450	45/70/105	341+S	686+S	801+S	24	30	322	246	20	18	40	12	146	200	175	230	180
DYTZW-750	750	45/70/100	385+S	714+S	869+S	30	45	325	246	30	25	60	20	168	200	195	250	180
DYTZW-1000	1000	45/70/100	385+S	729+S	884+S	30	45	325	261	30	25	60	20	168	200	195	250	180
DYTZW-1750	1750			745+S	900+S	30	45	331	286	30	30	70	30	168	200	215	250	180
DYTZW-2500	2500	60/97	385+S	775+S	950+S	30	45	331	316	30	30	70	30	168	200	215	250	180
DYTZW-3000	3000	45/70	395+S			40	50											

• 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



型号示例: DYTZ750-500/45

• 整体直式电液推杆
Integral straight electro-hydraulic push rod

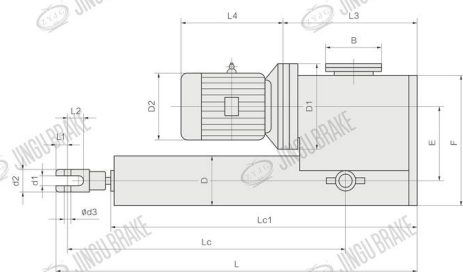
DYTZ系列电液推杆技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF DYTZ SERIES ELECTRO-HYDRAULIC PUSHER

表三

产品型号 Product type	安装及外形尺寸 Dimensions (mm)																	
	Lc	Lc1	L	L1	L2	L3	L4	Ød	d1	Ød2	Ød3	D	D1	D2	M	N	E	F
DYTZ-100	331+S	664+S	764+S	17	27	199	246	20	14	30	10	146	200	175	230	180	-	-
DYTZ-300	339+S	670+S	785+S	24	30	199	246	20	18	40	12	146	200	175	230	180	-	-
DYTZ-450		689+S	844+S			199	246					146						
DYTZ-750	373+S	710+S	865+S	30	45	199	261	30	25	60	20	168	200	175	250	180	-	-
DYTZ-1000																		
DYTZ-1750																		
DYTZ-2500	373+S	735+S	890+S	30	45	199	286	30	25	60	20	168	200	195	250	180	-	-
DYTZ-3000																		
DYTZ-4000	383+S	769+S	944+S			199	316	30	30	70	30	168	300	215	250	180	-	-
DYTZ-5000		788+S	963+S					40	30	70	30	180			290	210	-	-
DYTZ-6000	383+S	798+S	973+S	40	50			40	30	70	30	180			290	210	-	-
DYTZ-8000																		
DYTZ-10000	388+S	798+S	986+S	42.5	55	199	316	50	35	75	35	245	300	215	330	250	-	-
DYTZ-15000																		
DYTZ-20000																		

• 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



型号示例: DYT450-500/45

•平行式电液推杆
Parallel electro-hydraulic push rod

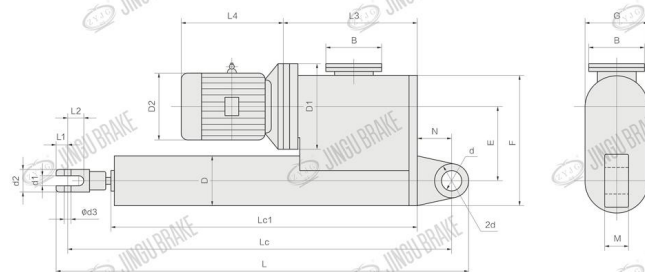
DYTP系列电液推杆技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF DYTP SERIES ELECTRO-HYDRAULIC PUSHER

表四

产品型号 Product type	推力 Thrust (kg)	推速 Pushing speed (mm/s)	安装及外形尺寸 Dimensions (mm)																			
			Lc	Lc1	L	L1	L2	L3	L4	Ød	d1	Ød2	Ød3	D	D1	D2	M	N	E	F	G	B
DYTP-100	100	70/110/185	63+S	128+S	228+S	17	27	308	246	20	14	30	10	146	200	175	230	180	190	336	146	160
DYTP-300	300	45/70/115	81+S	138+S	253+S	24	30	308	246	20	18	40	12	146	200	175	230	180	190	336	146	160
DYTP-450	450																					
DYTP-750	750	45/70/100	125+S	148+S	303+S	30	45	315	246	30	25	60	20	146	200	175	250	180	190	336	146	160
DYTP-1000	1000								261	30	25	60	20	168	200	175	250	180	190	336	146	160
DYTP-1750	1750	60/97	125+S	148+S	303+S	30	45	325	286	30	25	60	20	168	200	195	250	180	190	336	146	160
DYTP-2500	2500	45/70																	200	359	168	
DYTP-3000	3000	35/55	155+S	148+S	323+S	40	50	331	316	30	30	70	30	168	250	215	250	180	200	359	168	160
DYTP-4000	4000	30/45	158+S	158+S	333+S					40				180			290	210	240	420	180	
DYTP-5000	5000	25/40	155+S		343+S	40	50	334	316	40	30	70	30	180	250	215	290	210	240	420	180	160
DYTP-6000	6000	25/38	200+S	168+S	356+S	42.5	55			50	35	75	35	219	250	215	330	250	260	475	219	
DYTP-8000	8000	25/30							316													160
DYTP-10000	10000	24/33	200+S	178+S	365+S	42.5	55	341	336	50	35	75	35	219	250	215	330	250	260	475	219	
DYTP-15000	15000	23	200+S	188+S	388+S	50	60	348	391	60	45	85	40	245	300	275	354	254	320	565	245	200
DYTP-20000	20000	18		208+S	408+S																	

*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



型号示例: DYTPX450-500/45

•平行式电液推杆
Parallel electro-hydraulic push rod

DYTPX系列电液推杆技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF DYTPX SERIES ELECTRO-HYDRAULIC PUSHER

表五

产品型号 Product type	推力 Thrust (kg)	推速 Pushing speed (mm/s)	安装及外形尺寸 Dimensions (mm)																			
			Lc	L	L1	L2	L3	L4	ød	d1	ød2	ød3	D	D1	D2	M	N	E	F	G	B	
DYTPX-100	100	70/110/185	281±S	128±S	318±S	17	27	308	246	20	14	30	10	146	200	175	20	70	190	336	146	160
DYTPX-300	300	45/70/115	299±S	138±S	343±S	24	30	308	246	20	18	40	12	146	200	175	20	70	190	336	146	160
DYTPX-450	450																					
DYTPX-750	750																					
DYTPX-1000	1000	45/70/100	353±S	148±S	413±S	30	45	315	246	30	25	60	20	146	200	175	30	80	190	336	146	160
DYTPX-1750	1750	60/97	353±S	148±S	413±S	30	45	325	286	30	25	60	20	168	200	195	30	80	190	336	146	160
DYTPX-2500	2500	45/70																	200	359	159	
DYTPX-3000	3000	35/55	363±S	148±S	433±S	40	50	331	316	40	30	70	30	168	250	215	30	80	200	359	159	160
DYTPX-4000	4000	30/45	383±S	158±S	463±S														40	90	240	420
DYTPX-5000	5000	25/40	393±S	168±S	473±S	40	50	334	316	40	30	70	30	180	250	215	40	90	240	420	180	160
DYTPX-6000	6000	25/38	403±S		496±S	42.5	55												50	35	75	35
DYTPX-8000	8000	25/30	413±S	178±S	506±S	42.5	55	341	316	50	35	75	35	219	250	215	40	90	260	475	219	160
DYTPX-10000	10000	24/33																	336	50	35	75
DYTPX-15000	15000	23	438±S	188±S	548±S	50	60	348	391	60	45	85	40	245	300	275	60	100	320	565	245	200
DYTPX-20000	20000	18	458±S	208±S	568±S														40	90	260	475

*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.

YZ(J) 系列液压站

YZ(J) SERIES HYDRAULIC POWER UNIT

应用 Application

- YZ(J)型液压站主要用于液压夹轨器、液压轮边制动器的配套驱动，也可作为其他单作用油缸的配套驱动。

APPLICATION

- YZ(J) series hydraulic stations are mainly used for matching driving of hydraulic rail clamp, hydraulic wheel brake and safety brake, and also can be used as matching driving of other single-acting cylinders.

主要特点 Main feature

- 结构紧凑，造型美观，保压性能稳定；
- 多功能复合控制方式，在断电检修时，依靠人力实现上压过程；
- 设有防尘罩，可适应露天作业；
- 主要阀件为座阀，泄漏量少，系统保压性能稳定，电机不需长时间运转。
- 配有手动泵，可在断电、检修时作应急动力源。

MAIN FEATURE

- Compact structure, beautiful appearance and stable pressure retaining performance;
- Multi functional composite control mode, in the power failure maintenance, relying on human to achieve the pressure process;
- Equipped with dust cover, it can adapt to outdoor operation;
- The main valve is seat valve, which has less leakage, stable pressure maintaining performance of the system, and the motor does not need to run for a long time.
- Be equipped with hand pump, which can be used as the emergency power supply when powered off and maintained.

YZ(J)系列液压站技术参数及外形尺寸 TECHNICAL DATA AND DIMENSIONS OF YZ(J) SERIES HYDRAULIC POWER UNIT

液压站型号 Thrustor type	额定压力 Rated power (Mpa)	流量 Flow (L/min)	电动机功率 Power of motor (KW)	H	液压站油量 Hydraulic station flow (L)	电机电源 Motor power supply	重量 Weight (kg)	匹配产品型号 Matching product model
YZ(J)-13-4	13	4	1.1	640	50	AC380V 50Hz	100	YJGQ-16
YZ(J)-10-6	10	6	1.5	640				YJGQ-20
YZ(J)-13-6	13	6	1.5	640				YJGQ-25
YZ(J)-14-9	14	9	2.2	690				SB、SBD等安全制动器
YZ(J)-15-10	15	10	3	690				SB、SBD等安全制动器

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.



YZ(J)系列

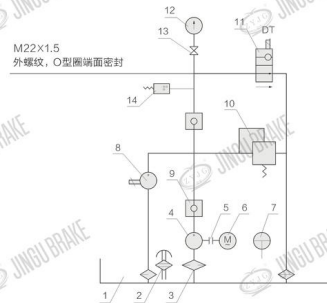
使用条件 Operating Condition

- 环境温度：-10℃ ~ +40℃
- 相对湿度：空气相对湿度不大于90%
- 电机工作电源：三相交流，AC380V、50Hz
- 泵站控制电源：AC220V、50Hz（如需其它电压，请订货时事先说明）。

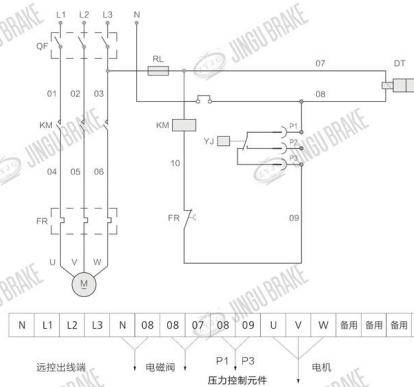
OPERATING CONDITION

- Ambient temperature: -10℃ ~ +40℃
- Relative humidity: The relative humidity of the air is not more than 90%
- Motor power supply: AC3 phase, AC380V, 50Hz
- Control power supply of pump station: AC220 V, 50 Hz

液压站液控图 Hydraulic control diagram of hydraulic station



液压站电控图 Electric control diagram of hydraulic station



型号意义 Model Significance

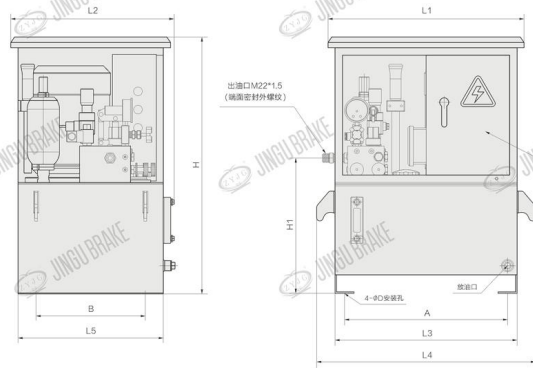


液压站附加功能表 ADDITIONAL FUNCTION TABLE

功能序号 Serial number	名称 Name
1	油箱 Fuel tank
2	空气滤清器 Air filter
3	吸油口滤油器 Oil suction port filter
4	油泵 Oil pump
5	联轴器 Coupling
6	电动机 Motor
7	液位计 Liquid level meter
8	手动泵 Manual pump
9	单向阀 Non-return valve
10	溢流阀 OverFlow valve
11	电磁换向阀 Electromagnetic reversing valve
12	压力表 Pressure gauge
13	压力表开关 Pressure gauge switch
14	压力继电器 Pressure relay

功能代号 Function code	名称 Name
M	电动机 Motor
KM	交流接触器 AC contactor
FR	热继电器 Thermal relay
YJ	压力继电器 Pressure relay
DT	电磁阀 Electromagnetic valve
RL	熔断器 Fuse
QF	空气开关 Air switch

安装及外形尺寸 Outline And Installation Dimension



• 此液压站仅适用于安全制动器
This hydraulic station is only applicable to the safety brake

液压站用油 Hydraulic station oil

- -10℃ ~ +50℃ 时，
用 L-HM32、L-HM46 液压油
- -30℃ ~ +50℃ 时，
用 L-HV32、L-HV46 液压油

HYDRAULIC STATION OIL

- -A110℃ ~ +50℃, use L-HM32, L-HM46 hydraulic oil
- -A130℃ ~ +50℃, use L-HV32, L-HV46 hydraulic oil

YZ 系列液压站技术参数 TECHNICAL DATA OF YZ SERIES HYDRAULIC POWER UNIT

表一

液压站型号 Thruster type	额定压力 Rated power (Mpa)	输出流量 Output flow (L/min)	回油流量 Return oil flow (L/min)	电动机功率 Power of motor (kW)	油箱容积 Tank volume (L)	电磁阀 Solenoid valve 额定电压 功率	压力继电器触点电容量 Contact capacitance of pressure relay	重量 Weight (kg)			
YZ1-10-10	10	10	20	2.2	40	DC24V 24W	AC220V 5A	42			
YZ1-20-10	20	10		3.7				85			
YZ2-10-20	10	20		7.5				86			
YZ2-20-20	20	20						150			
YZJ-20-20	20	20	40	7.5	80	48W		150			

YZ 系列液压站外形尺寸 DIMENSIONS OF YZ SERIES HYDRAULIC POWER UNIT

表二

液压站型号 Thruster type	安装及外形尺寸 Dimensions (mm)									
	L1	L2	L3	L4	L5	H	A	B	H1	D
YZ1	540	448	600	600	400	680	440	290	350	12
YZ2	640	548	600	700	500	850	540	440	450	12
YZJ	640	548	600	700	500	750	440	290	350	12

*注：蓄能器充气压力为制动器额定工作压力的 75%~90%。 Note: the nitrogen charging pressure of the accumulator is 75%~90% of the rated working pressure of the brake.

• 尊敬的客户，感谢您选用河南金箍制动器的产品，您在使用过程中如出现质量问题，请不要先拆卸零件，应说明具体情况后与我公司的售后服务部联系，说明现象后，确认问题的所在，以便我们更好的为您服务。

Dear clients, thank you for choosing products of Henan JINGU brakes. If you come across any quality problems during your use, please do not demount accessories and should report specific circumstances to our after sales department so that we are able to offer better service for you.

• 型号规格：Model and specification

出厂日期：Ex-factory date

产品编号：Item No.

已使用时间：Time used

使用场合和主机名称：Name of host machine

主机生产单位：Production unit of host machine

• 用户单位：User unit

地址：Add

电话：Tel

传真：Fax

邮编：P.C

联系人：Contact person

• 产品质量反馈：Quality feedback

• 金箍制动器售后服务电话 Tel: 0373-872 8888 872 9999

传真 Fax: 0373-873 6332

企业官方网站: www.hnjgzdq.cn

JINGU Brakes after-sales service