

Electric actuator [linear actuator]



一.TG-100 系列电动推杆选购步骤

1.Select the stroke and installation distance

First, you must confirm the required push-pull distance of the electric actuator on your equipment ; secondly, you must confirm that your equipment can accommodate electric actuators of a reasonable size to accommodate electric actuators.

2. Confirm load and speed

by considering the specific scenarios in which the electric actuator is used and comparing the specifications of each electric actuator.

3. Decide on voltage or select controller

Select the specific working voltage of the electric actuator. Currently, you can choose 12, twenty four, 36V, this method mainly relies on the customer's own Provide designed

control systems or **PLC** lines to control the push rod. If there is no optional power adapter and control

device to control the operation of the electric push rod.

4. Clarify the usage environment and frequency of use

Confirm the usage rate, which should be no greater than 15%. If it is too large, the service life will be reduced; and check whether the push rod is working. There are torsional or impact loads, please try to avoid such loads when using.

5. Other special requirements

If customers have special requirements, they can also submit them to our company's technical staff, such as special installation interface methods. Wait, we will try our best to meet customer requirements.

二. TG-100 系列电动推杆安全使用规范

1. The output shaft of the electric push rod produced by our company must be fixed on a linear guide mechanism in accordance with the installation instructions. If it is not fixed on any. Regardless of the organization, there is the possibility of idling.
2. When using an electric push rod, do not cause mechanical interference to avoid failure of the motor or mechanical structure.
3. Please input the DC voltage according to the calibrated voltage specification of the electric actuator motor. The supplied DC voltage can provide the maximum load. The current below is the rated maximum current.
4. If the customer provides its own power supply and controller, please install an over-current hazard prevention device (such as a fuse) and an over-current hazard prevention device (such as a fuse) on the output side of the power supply or the input side of the electric actuator power cord according to the current value allowed by the wire cross-section. Current detection device, and uses this overcurrent signal to control the electric push rod to stop its movement and interrupt the power supply.
5. If the customer provides its own power supply and controller, please install an overload detection device to ensure that the electric actuator The power axis can cut off the power supply at the extreme position or under overload operation, and be properly controlled and guaranteed.

6. Except for special customization, the rated operating rate of our company's electric actuators is 15%, this operation rate defines continuous operation 3 minute, rest 17 minutes, if the customer's use exceeds the rated operating rate (15%) please install an overheat detection and overheat prevention device (such as fan) and use this overheat detection signal to control the electric push rod to stop its movement or interrupt the power supply according to the control requirements. supply.
7. The electric actuators produced by our company generally contain limit switches. If the customer does not choose a limit switch, please install limit switches at the front and rear stroke positions of the electric actuator output shaft, and use limit switches that can match the limit switches. Controller and power supply for power outage protection measures. To ensure that the power supply can be cut off when the electric push rod output shaft moves to the stroke limit position.
8. The motor of the electric actuator is a DC motor. When the two motor power input lines are intermodulated, the output shaft of the electric actuator moves in the opposite direction. When stopping, please cooperate with the appropriate controller and power supply, and then connect the two motors. The power input line is short-circuited, To avoid the danger of short circuit of the power supply.
9. If the infinite switch and controller are not guaranteed to be overloaded, do not operate to the limit of the stroke.
10. Do not apply a load exceeding the maximum load specified on the electric actuator.
11. If the electric actuator is non-waterproof, please use it in compliance with the waterproof specifications of the electric actuator.

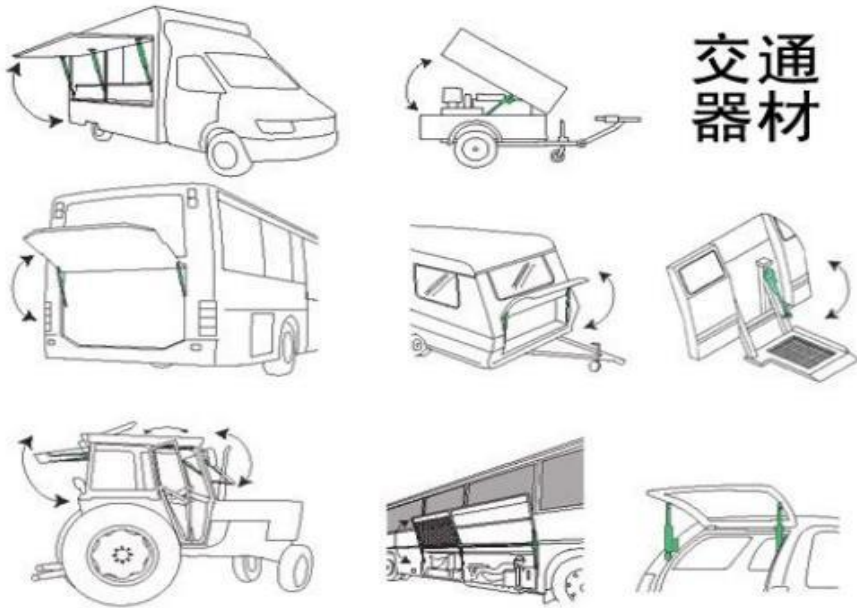
三. TG-100 系列电动推杆的特性和应用范围及安装

1. characteristic

- Compact structural design and light weight
- Easy to install and easy to operate
- low noise
- High performance price ratio

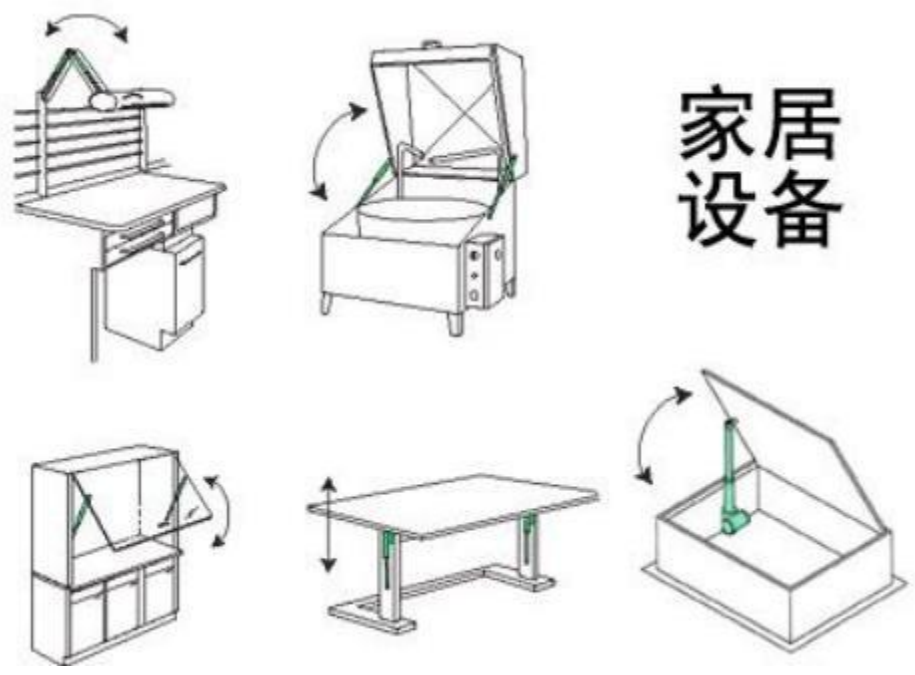
2. Examples of application scope

- ◆ Traffic equipment automation



交通器材

◆ Home automation equipment

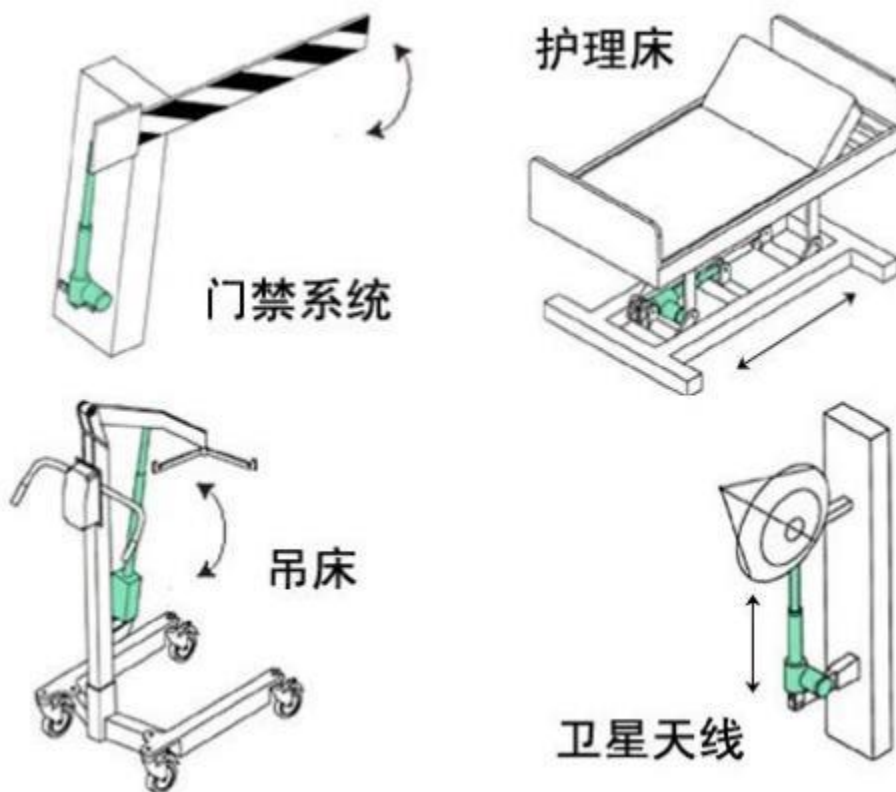


家居设备

◆ Industrial automation equipment



◆ Other applications



3. installation method

The default installation method of the electric actuators produced by our company is to fix the mounting holes at both ends. If the customer needs to use other installation methods, he can communicate with our technical staff through drawings, and we will try our best. To meet customer requirements.

The following are various mounting heads. We can satisfy customers according to their own needs.



四.TG-100 系列电动推杆性能

Example itinerary	150mm
Minimum installation distance	150+170=320mm
Voltage	12, 24, 36V
speed	4, 10, 16, —100MM/S
Maximum thrust	600KG
weight	1.5KG
operating temperature	-20 °C —60 °C
Protection level	IP54
Limit switch	built-in
power	60W the following

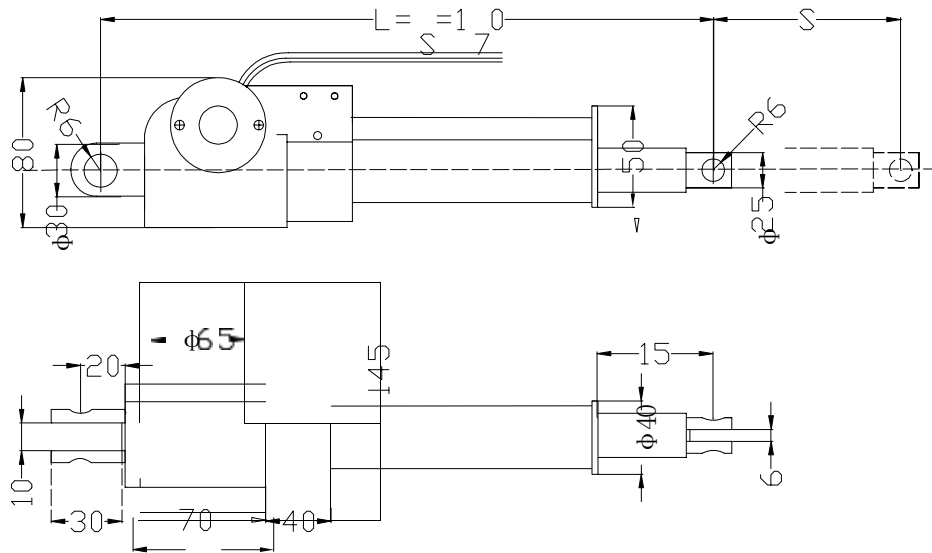
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42Db the
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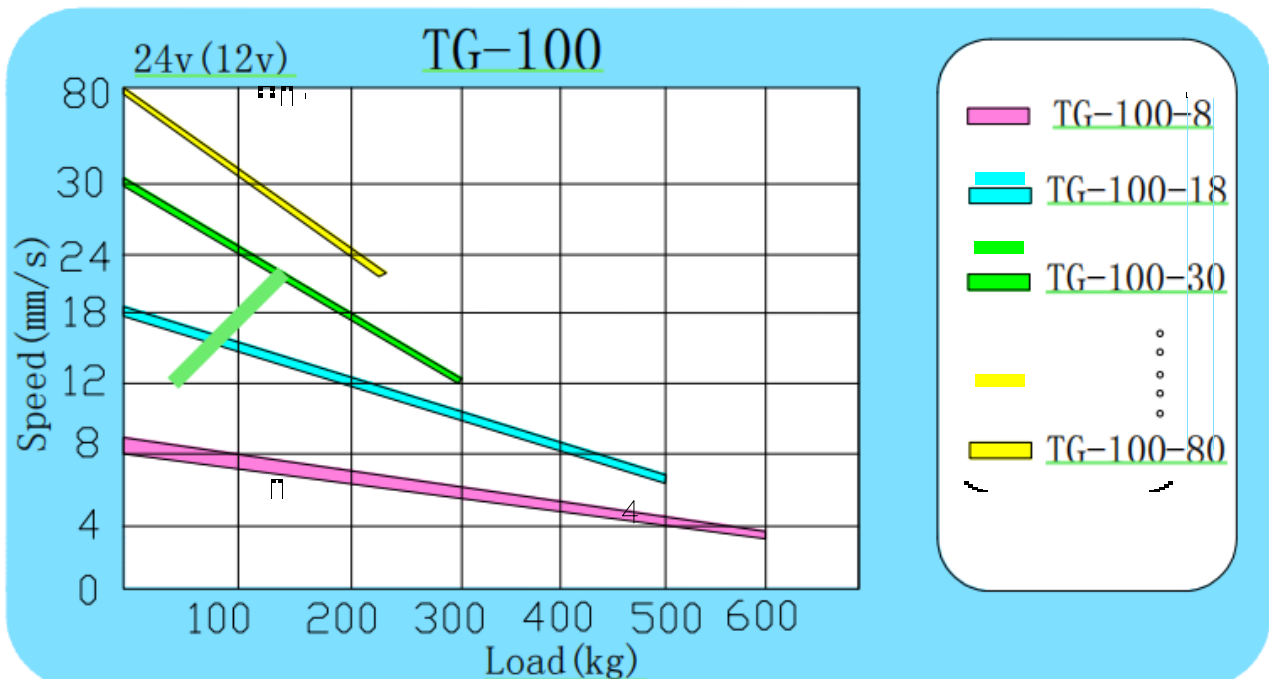
Note: The above parameters are optional, and the thrust is inversely proportional to the speed (the faster the speed, the smaller the thrust)

✧ Putter color: silver white, silver gray, black

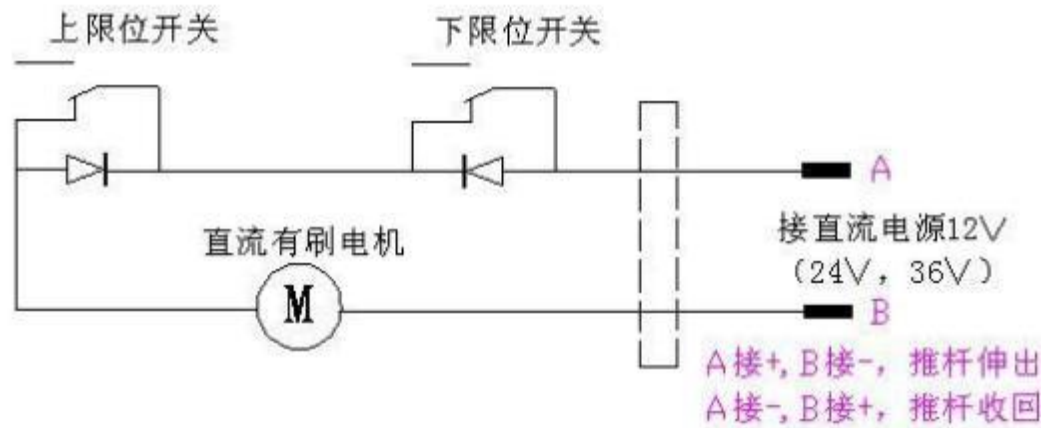
✧ $L = S + A \pm 1$ (S : Stroke; A : Constant, the minimum value is **170mm**)



◆ Test chart: relationship between thrust and speed



◆ TG-100 schematic diagram



◆ Number description:

