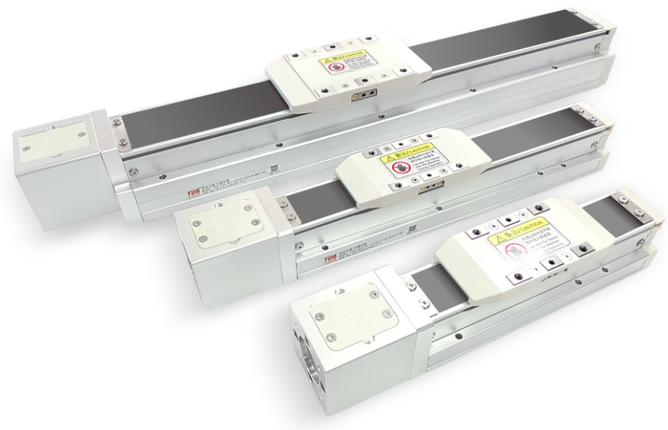
TPA 玖钧传动 Motion Control

LINEAR MODULES WITH BUILD-IN U RAILS

内嵌式铝基模组



玖钧传动·智造兴邦

玖钧传动·智造兴邦

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TPA 网站 TPA website

微信公众号 Wechat public account

产品资料 Product Information

三维选型 Three-dimensional selection

抖音号 Douyin

Solutions

9001

产品型录编号:TPA-BD-ZE-004



维护保养手册

一、日常检查项目

线性模组是一种常见的传动机构，在实际操作中，被广泛应用到各种各样的设备中，因使用环境和使用工况不同，需要及时检查和维护。

日 常 检 查 项 目	
1. 检查部件表面是否有损伤，压痕和摩擦情况。	2. 滚珠螺杆、轨道、轴承是否有异常震动或噪音。
3. 电机、联轴器是否有异常震动或噪音。	4. 所见部位是否有不明粉尘、油渍、痕迹等。

二、周期维护项目

配 件	维 护 方 案	维 护 周 期	具 体 操 作
滚珠螺杆	增加润滑脂（粘度：30-40cts）清理旧油污，注入新润滑脂。	每月一次或每行走100KM的距离	用无尘布直接擦拭干净螺杆珠槽和螺母两端，将新润滑脂直接注入油孔或涂抹螺杆表面。
线性滑轨	增加润滑脂（粘度：30-150cts）清理旧油污，注入新润滑脂。	每月一次或每行走100KM的距离	用无尘布直接擦拭干净轨道表面及轨道珠槽，将新润滑脂直接注入油孔。

三、异常问题以及解决方法

线 性 模 组 异 常 情 况	维 修 、排 除 方 法
电源接入时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。
马达转动时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。 3. 检查马达刹车是否释放。 4. 检查机构是否因超载产生变形。
马达运转时滑台不顺畅	1. 检查刹车是否释放。 2. 将马达与线性模组分离，手推滑动座，判断问题点原因。 3. 检查联轴器固定螺丝是否松动。 4. 检查线性模组移动区域是否有异物掉落。
线性模组行走距离与实际距离不符	1. 检查输入行走数值是否正确。 2. 检查导程输入数值是否正确。
马达运动ON，滑台没有移动	1. 检查刹车是否释放。 2. 检查联轴器固定螺丝是否松动。 3. 将马达与线性模组分离，判断问题点、原因。

另本公司负责自身商品的故障维修，并不负责因产品故障引起的其他损失。

Maintenance manual

一、Daily inspection items

Linear module is a common transmission mechanism, which is widely used in all kinds of equipment in actual operation. It needs to be checked and maintained in time because of the different environment and working conditions.

Daily inspection items	
1.Check the surface of parts for damage, indentation and friction.	2.Is there any abnormal vibration or noise in the screw, track and bearing.
3.Whether the motor and coupling have abnormal vibration or noise.	4.See if there are any unknown dust, oil stains, traces, etc.

二、Periodic maintenance project

Parts	Maintenance scheme	Maintenance cycle	Specific operation
Ball screw	Add grease (viscosity: 30-40cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the screw bead groove and both ends of the nut directly with a dust-free cloth, and directly inject new grease into the oil hole or coat the screw surface.
Linear slide rail	Add grease (viscosity: 30-150cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the track surface and track bead groove directly with a dust-free cloth, and directly inject new grease into the oil hole.

三、Exceptions and solutions

Linear module abnormal situation	Maintenance and troubleshooting methods
Abnormal sound is produced when the power supply is connected.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver.
Abnormal sound is produced when the motor rotates.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver. 3. Check whether the motor brake release. 4. Check whether the mechanism is deformed due to overload.
The sliding table is not smooth when the motor is running.	1. Check the brake release. 2. Separate the motor from the linear module and push the sliding seat to determine the cause of the problem. 3. Check the coupling setting screws for loosening. 4. Check whether foreign objects have fallen from the moving area of the linear module.
The linear walking distance of the module is inconsistent with the actual distance.	1. Check whether the input walking value is correct. 2. Check whether the lead input value is correct.
The motor is ON, and the slide table does not move.	1. Check the brake release. 2. Check whether the coupling fixing screw is loose. 3. Separate the motor from the linear module to determine the cause of the problem.

In addition, the company is responsible for the fault maintenance of its own goods, and is not responsible for other losses caused by product failure.



维护保养手册

一、日常检查项目

线性模组是一种常见的皮带传动机构，在实际操作中，被广泛应用到各种各样的设备中，因使用环境和使用工况不同，需要及时检查和维护。

日 常 检 查 项 目	
1. 检查部件表面是否有损伤，压痕和摩擦情况。	2. 检查皮带是否张紧，是否达到张力计参数标准。
3. 调试的时候因查阅同步带参数避免速度过快撞机。	4. 模组程序启动，人应离开模组安全距离，避免人身伤害。

二、周期维护项目

配 件	维 护 方 案	维 护 周 期	具 体 操 作
同步带	垂直使用情况下，皮带张紧力校核。	每半个月检查下皮带松弛。	把张力计对着皮带间距10MM处，手拨动皮带，皮带震动显示数值，是否达到出厂时的参数值，若不是，拧紧张紧机构。
线性滑轨	增加润滑脂(粘度:30-150cts)清理旧油污，注入新润滑脂。	每月一次或每行走100KM的距离。	用无尘布直接擦拭干净轨道表面及轨道珠槽，将新润滑脂直接注入油孔。

三、异常问题以及解决方法

线 性 模 组 异 常 情 况	维 修 、排 除 方 法
电源接入时产生异音	1. 调整伺服驱动器内参数“机械共振抑制”数值。 2. 调整伺服驱动器内参数“自动调谐”数值。
如联轴器，同步轮出现打滑	1. 检查同步轮，连轴器是否锁紧。 2. 检查同步轮，连轴器是否带键槽。 3. 同步轮和连轴器的轴是否匹配。
马达运转时滑台不顺畅	1. 检查刹车是否释放。 2. 将马达与线性模组分离，手推滑动座，判断问题点原因。 3. 检查联轴器固定螺丝是否松动。 4. 检查线性模组移动区域是否有异物掉落。
皮带模组运行出现定位精度不准	1. 检查皮带是否松弛，皮带出现跳齿。 2. 检查皮带导程输入数值是否正确。
如伺服电机报警，显示过载	1. 检查刹车是否释放。 2. 检查联轴器固定螺丝是否松动。 3. 因加减速机，加大速比，增大扭矩，降低速度。

另本公司负责自身商品的故障维修，并不负责因产品故障引起的其他损失。

Maintenance manual

一、Daily inspection items

Linear module is a common belt transmission mechanism, which is widely used in all kinds of equipment in actual operation. It needs to be checked and maintained in time because of the different environment and working conditions.

Daily inspection items	
1. Check the surface of parts for damage, indentation and friction.	2. Check whether the belt is tensioned and meets the parameter standard of tensiometer.
3. When debugging, consult the timing belt parameters to avoid too fast collision.	4. When the module starts, people should leave the module at a safe distance to avoid personal injury.

二、Periodic maintenance project

Parts	Maintenance scheme	Maintenance cycle	Specific operation
Synchronous belt	Under vertical use, belt tension Check.	Check the belt slack every half month.	Point the tensiometer at the belt spacing of 10mm, and touch the belt by hand. The vibration of the belt shows whether the value reaches the factory parameter value. If not, screw the tensioning mechanism.
Linear slide rail	Add grease (viscosity: 30-150cts) Clean up old grease and inject new grease.	Once a month or every 100KM distance.	Clean the track surface and track bead groove directly with a dust-free cloth, and directly inject new grease into the oil hole.

三、Exceptions and solutions

Linear module abnormal situation	Maintenance and troubleshooting methods
Abnormal sound is produced when the power supply is connected.	1. Adjust the value of the servo drive parameter "mechanical resonance suppression". 2. Adjust the value of Auto tuning in the servo driver.
For example, the coupling and synchronous wheel slip.	1. Check whether the synchronizing wheel and coupling are locked. 2. Check whether the synchronizing wheel and coupling have keyways. 3. Whether the shafts of the synchronizing wheel and the coupling are matched.
The sliding table is not smooth when the motor is running.	1. Check the brake release. 2. Separate the motor from the linear module and push the sliding seat to determine the cause of the problem. 3. Check the coupling setting screws for loosening. 4. Check whether foreign objects have fallen from the moving area of the linear module.
The positioning accuracy of belt running is inaccurate.	1. Check whether the belt is slack, and the belt has tooth jumping. 2. Check whether the input value of belt lead is correct.
If the servo motor alarms, overload is displayed.	1. Check the brake release. 2. Check whether the coupling fixing screw is loose. 3. Increase the speed ratio, torque and speed by adding a reducer.

In addition, the company is responsible for the fault maintenance of its own goods, and is not responsible for other losses caused by product failure.