

Efficiency

Innovation

Concentration

Cooperation

LIMON[®]
PRECISION & SPEED



Linear Unit Instruction Manual



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Limon Auto Tech Co., Ltd

1 Installation Environment

Demand Series	ITO、ITC、HTO、HTC、ITZ、KS、GSC YSO、YSC、YTO、YTC Series Product
Operating temperature range	0-40
Operating humidity range	35~90% RH
Surrounding environment	<ol style="list-style-type: none"> 1. Places without direct sunlight 2. Places without dripping, cutting oil 3. Places without volatile components and corrosive gas 4. Places with little dust 5. Places with vibration or impact less than 0.5G 6. Places without electromagnetic wave, ultraviolet ray, radiation

Note: YSC series can be used in dust-free environment, other series shall be determined according to the working conditions.

2 Electric Control

- 2-1 When the servo motor is directly connected, because the inertia of the belt driven type module body is very large, it is very likely that it does not match the inertia of the motor rotor, which makes it difficult to adjust the inertia ratio. At this time, it is necessary to increase reduction ratio or replace the motor with larger inertia.
- 2-2 When setting driver parameters, the inertia ratio of belt driven type is slightly larger than that of ball screw driven type.

3 Maintenance

- ★ Maintenance Period: 12 months after the product leaves the factory.
- ★ Regular Inspection
(Pls refer the table on the next page for specific requirements)

Part Name	Every Day	Every Three Months	Every Six Months	Every Year	Key Points of Inspection and Maintenance	Handling of Abnormal Situation
Power Cord Signal Cord	✓				● Please check whether the power cord or signal cord is damaged or broken	● Please take replacement in time if the parts are damaged or broken
Cover Steel	✓				<ul style="list-style-type: none"> ● Please check whether the cover steel is damaged or not ● Please confirm whether the cover steel is loose or not 	<ul style="list-style-type: none"> ● If the module function has been affected, it should be replaced. ● If it is loose, it should be readjusted
Linear Guide	✓				<ul style="list-style-type: none"> ● Please refer to the screw torque table to check if the screws for linear guide is loose ● Please check whether there is abnormal sound when the carriage moves ● Please confirm whether there is enough lubricating oil on the original parts 	<ul style="list-style-type: none"> ● If it is loose, it needs to be locked again ● If found dirty, it needs to re-lubricating oil after cleaning up
All of the screws		✓			● Please check for looseness	● If it is loose, it needs to be locked again
Carriage	✓				<ul style="list-style-type: none"> ● Please check whether there is abnormal sound when the carriage moves ● Please confirm whether there is enough lubricating oil on the original parts 	● If found dirty, it needs to re-lubricating oil after cleaning up

4 Screw Torque Value Table

Screw Diameter	M3	M4	M5	M6	M8	M10
Tightening Torque Value	1.5N*M	3.7N*M	7.2N*M	11.8N*M	29.5N*M	59.0N*M