Maintenance

General preconditions

Before starting up the drive please follow this check list, respect all safety instruction and notes below:

Item
Check all electrical connections and all mechanical components and their safety operation
Check availability of all supply involved with servo driver/controller
Check the safety warranty of people involved with machine operation
Check the proper installation of the motor
Check the correct power connection between the motor and the drive
Check the function of limit switch, over-travel switch where available
Check function of emergency brake or stop
Check machine mechanics arrangement (mechanical installation)

	**Danger to life, heavy injury or damage by failure or malfunction on mechanical or electrical components!** **Risk of injury or danger to life, as well as damage due to nonconformity of warning and safety notes!**

General start-up procedure

For general startup procedure of integrated drive motors please refer to NILAB's Starter Software section.

Maintenance and check of motor components

Integrated drive linear motors are maintenance free components but due to external influences the motor can be damaged during operation. This result in preventive maintenance of the motors with service intervals on machine side checking all parts involved:

Item
Check the state of stator and the slider
Check screws and connections
Check the state of power and signal cables
Check the state of linear guides (mechanical components) evaluation wear and state of lubrication when used

Suggested maintenance schedule for applications

PHASE	LESS THAN 150 MOV/MIN	FROM 150 TO 300 MOV/MIN	MORE THAN 300 MOV/MIN
Startup	Check	Check	Check

After 3 months		Check	Check
After 6 months	Check	Check	Check

Maintenance activities

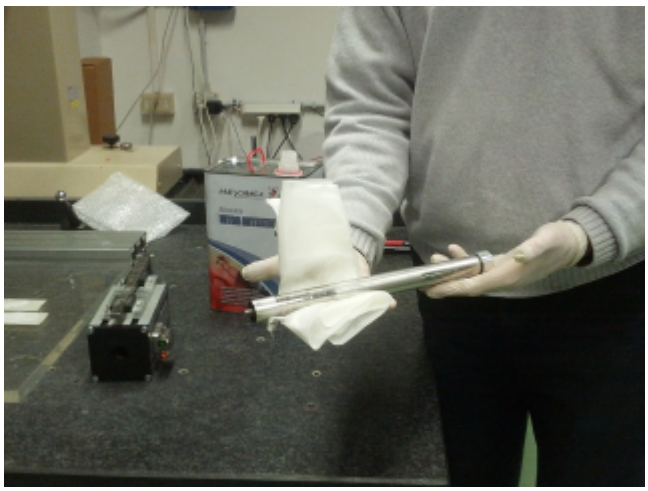
Check

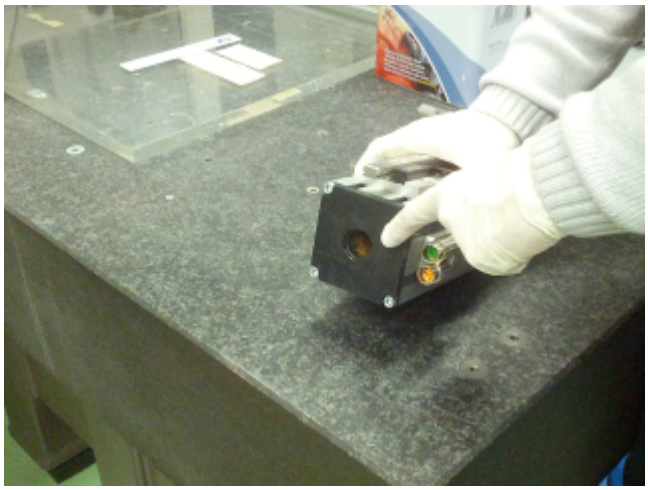
Please consider the following checklist:
1) Is the motor shaft clean?
2) May the motor shaft slide freely?

If the above conditions are not met, please proceed with the cleaning.

Cleaning

It is recommended not to use solvents, kerosene or similar products and to consider the following checklist:
1) Remove the shaft from the motor body dismounting the stop ring at the ends
2) Clean the shaft with alcohol and a soft cloth
3) Clean the internal parts of the motor body with compressed air to remove contaminants





Instructions for lubrication

The polymer sliding bearings are lubrication free bearing. So, there is no need to use lubricants.

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