MiSUMi
Linear Motor Actuator
Panasonic Auto tuning manual

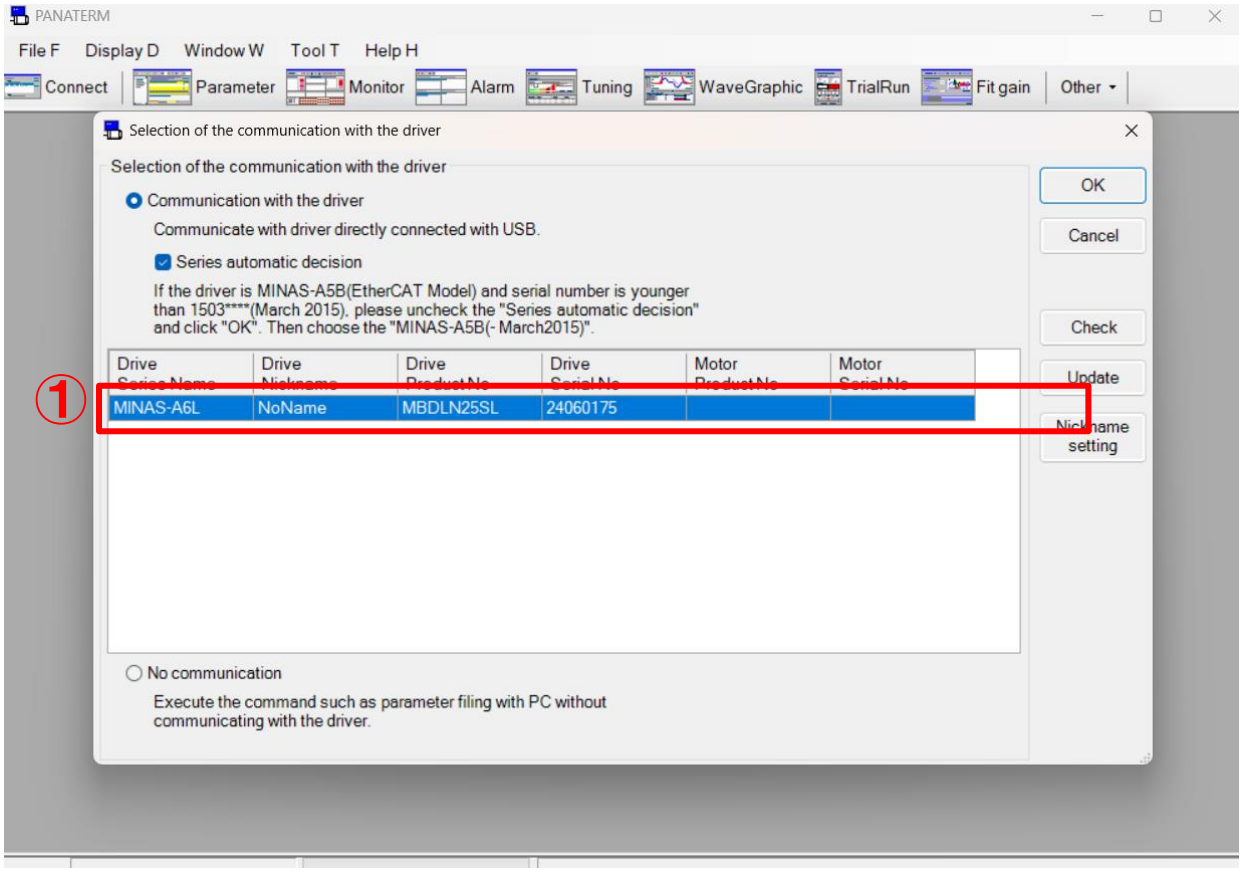
Rev.1

2024-12-21

Technical support team

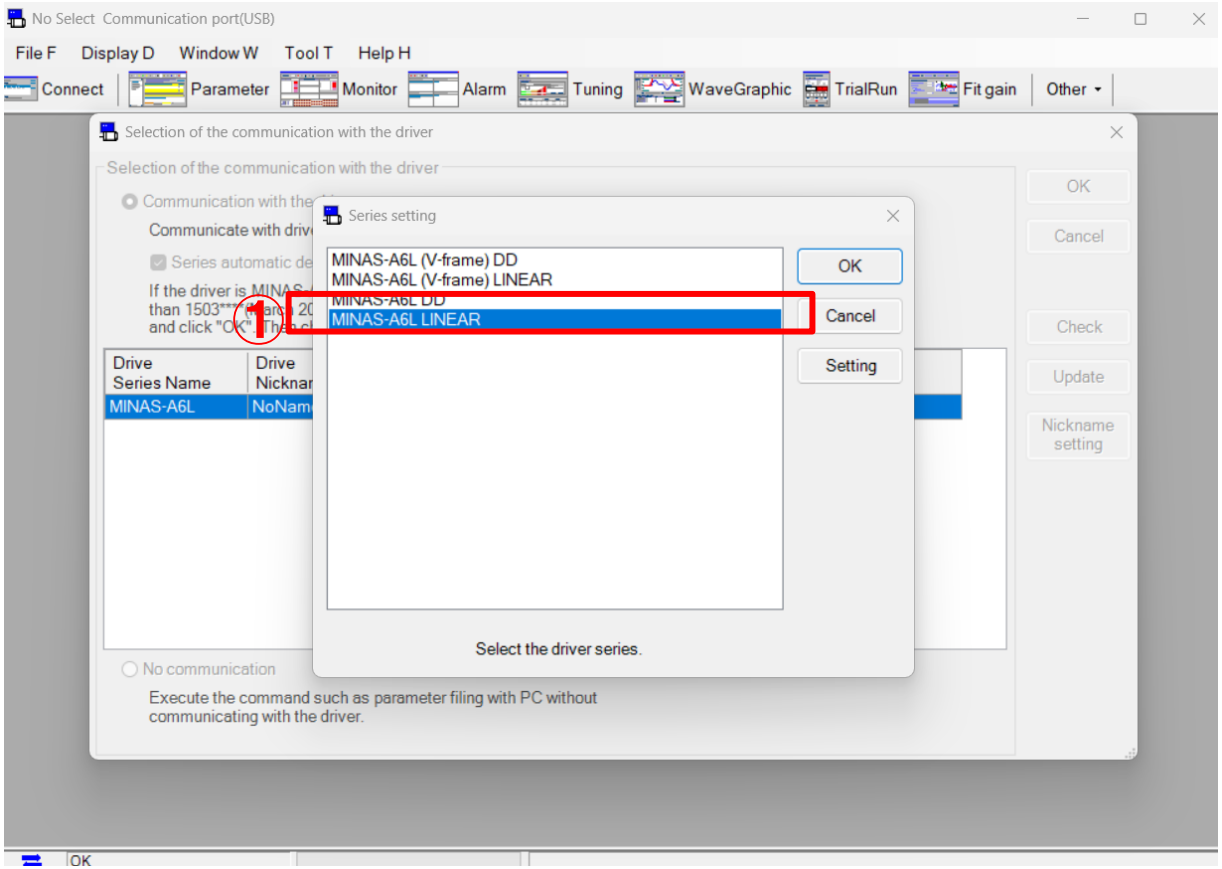
Drive access

- Turn on the drive, connect with USB, and run PANATERM.
- ① When the drive are shown, click “OK”.



Drive access

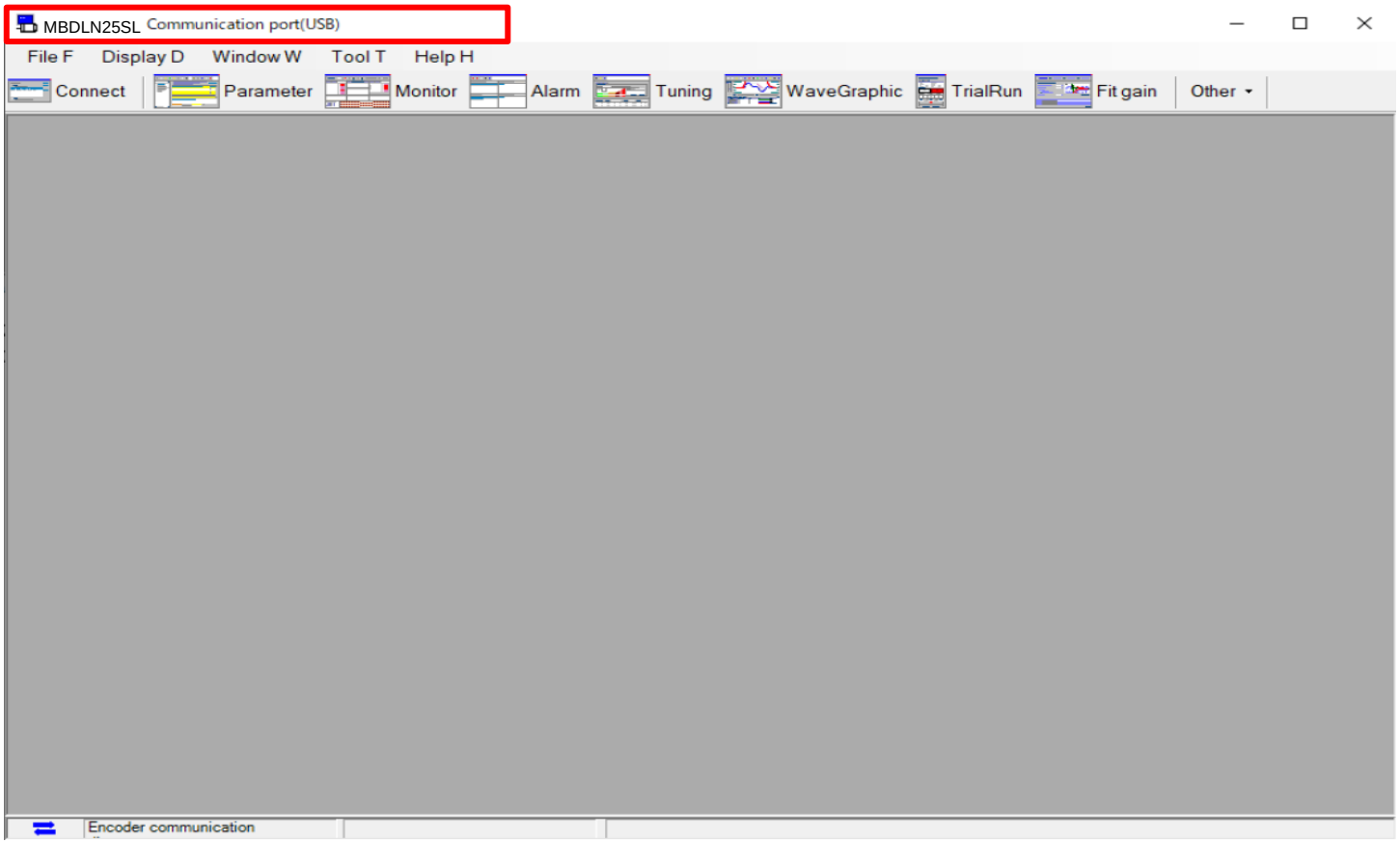
- When a pop-up window appears as shown in the screen, select MINAS-A6L LINEAR as shown in ① and click “OK”.



Drive access

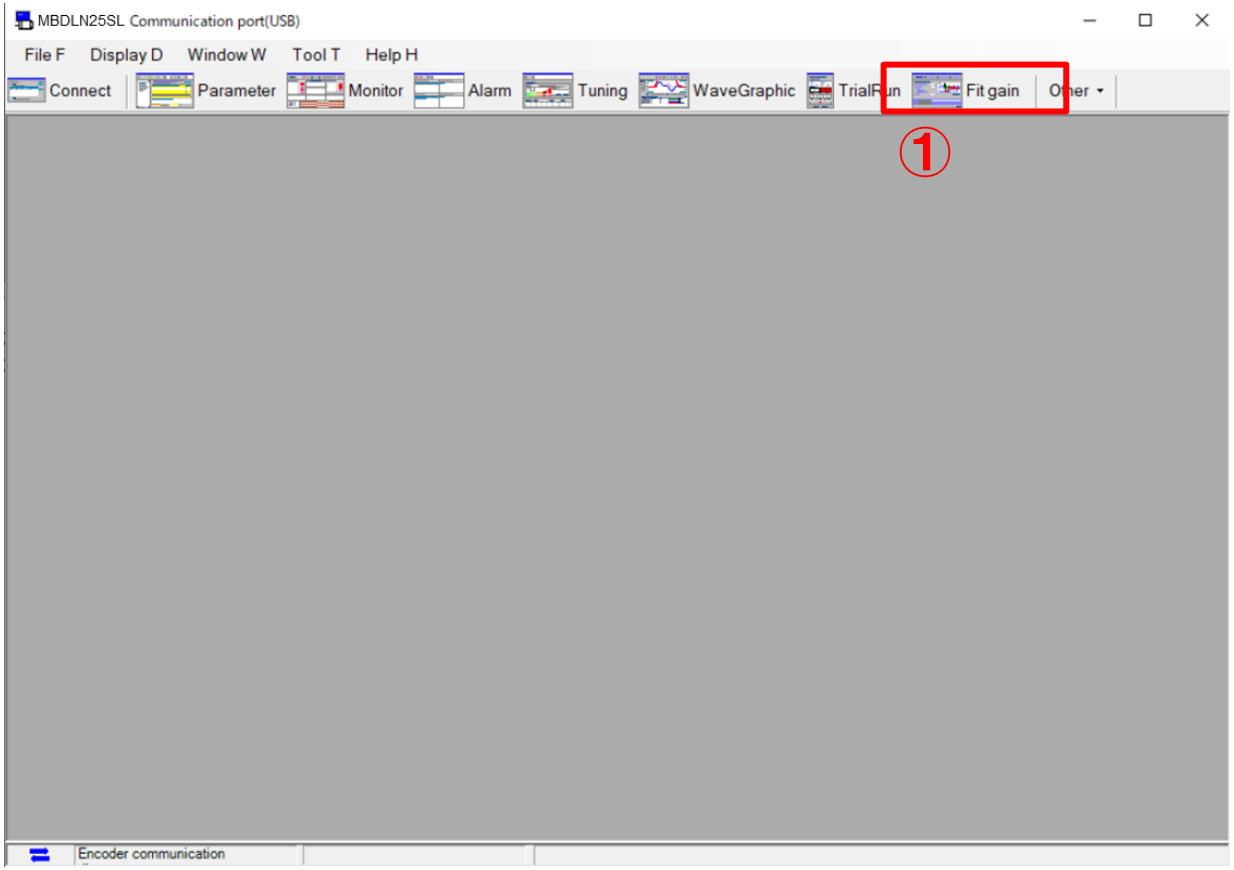
- If communication is normal, the drive type MBDLN25SL is displayed in ①.
- If communication is not possible, reboot the drive and reconnect as done above.

①



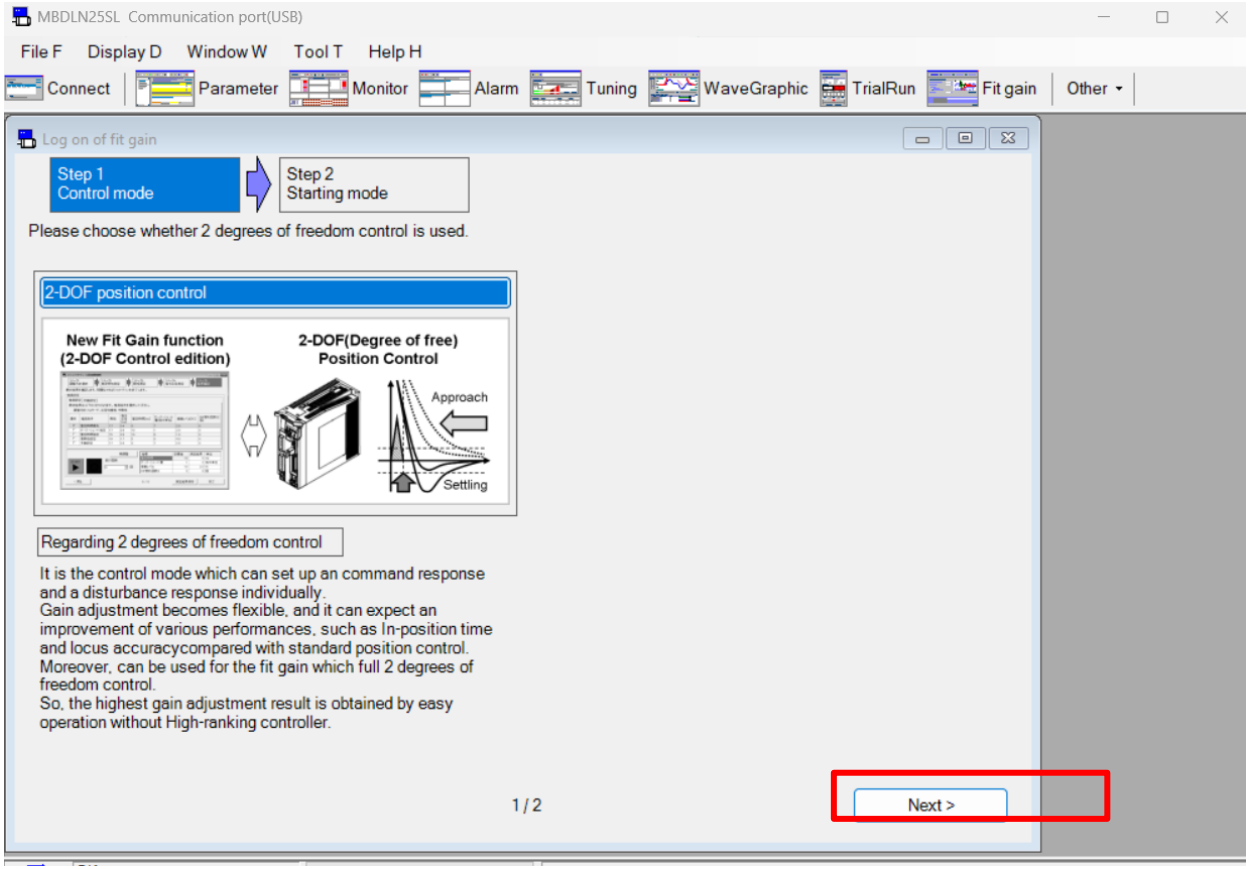
Drive access

- ① Click Fit gain



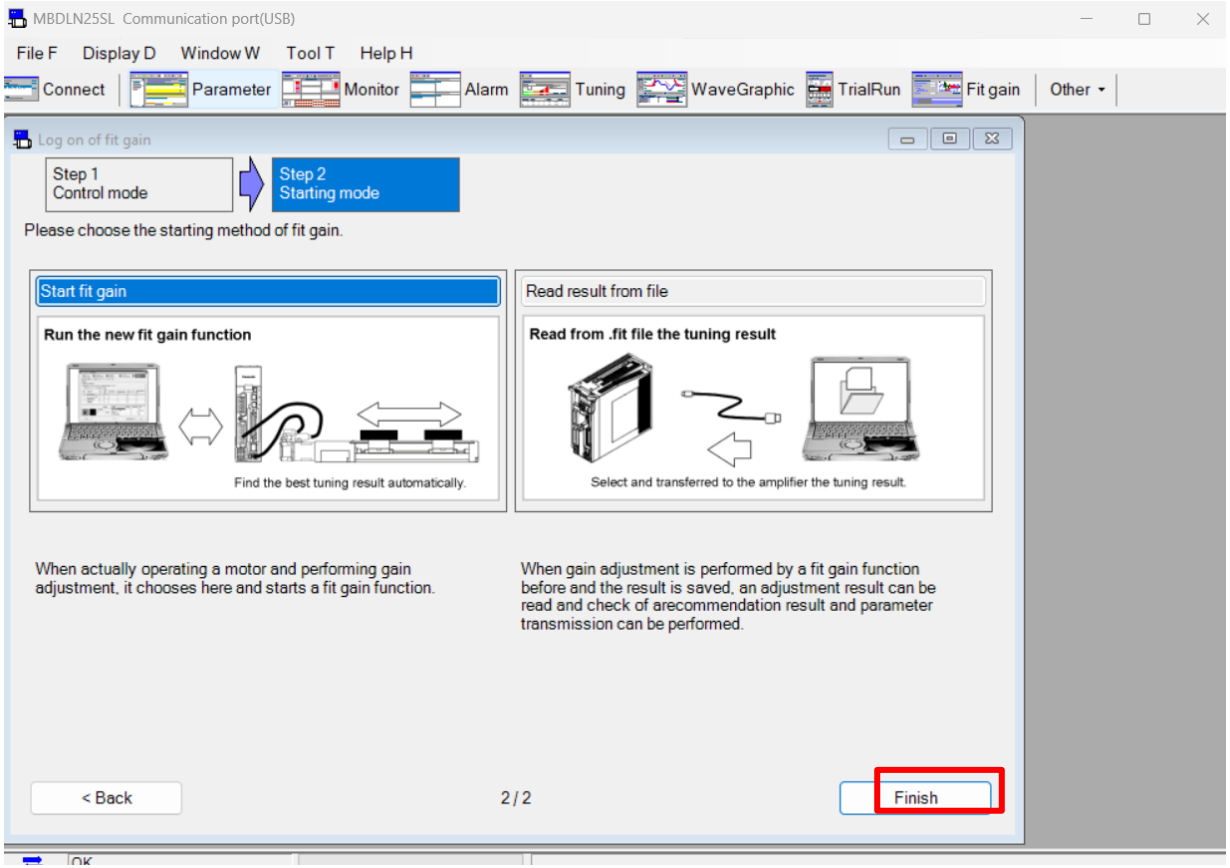
Auto tuning

- Window show you are log on, click “next” change to next step



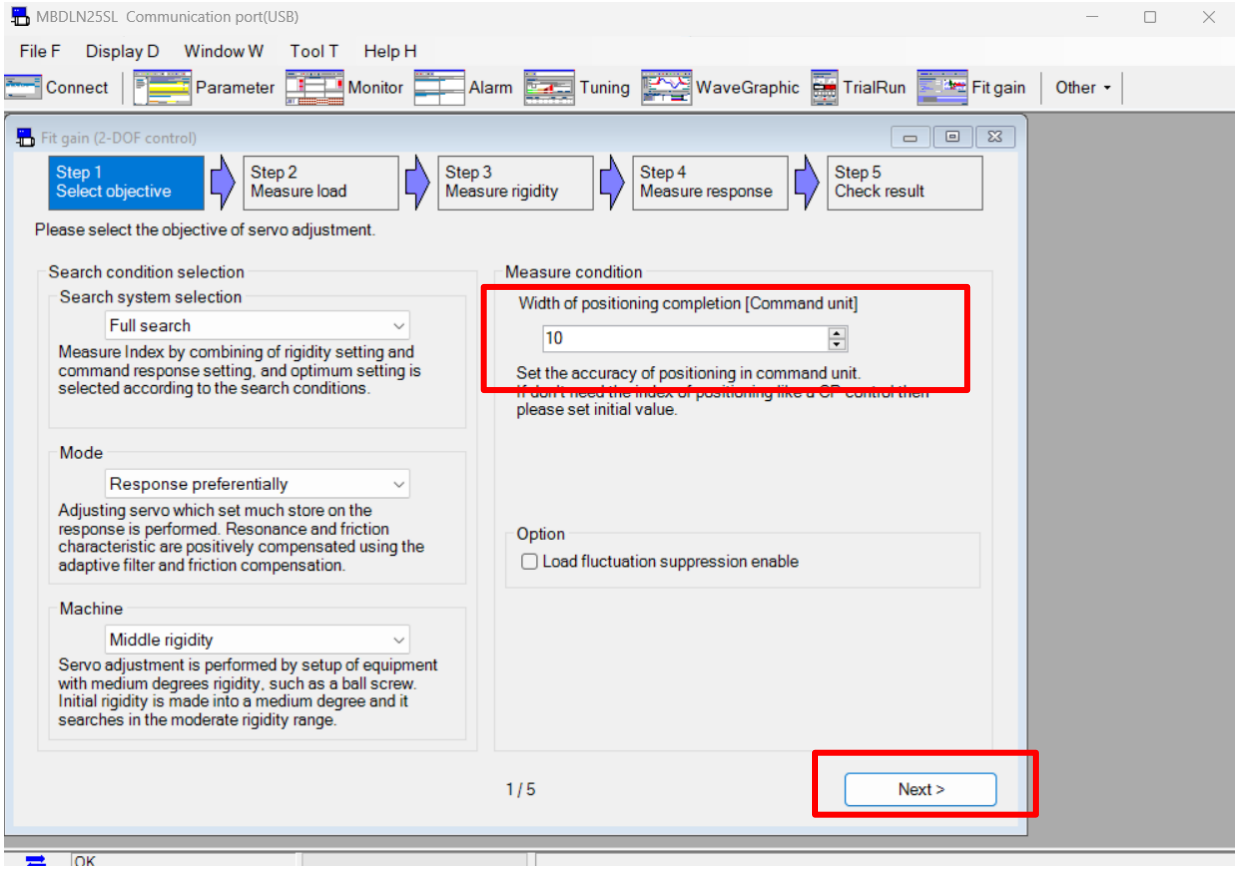
Auto tuning

- Start fit gain mean you are going to run fit gain function
- Read result from file mean you are going to read tuning parameter from a file
- Click “Finish” to confirm



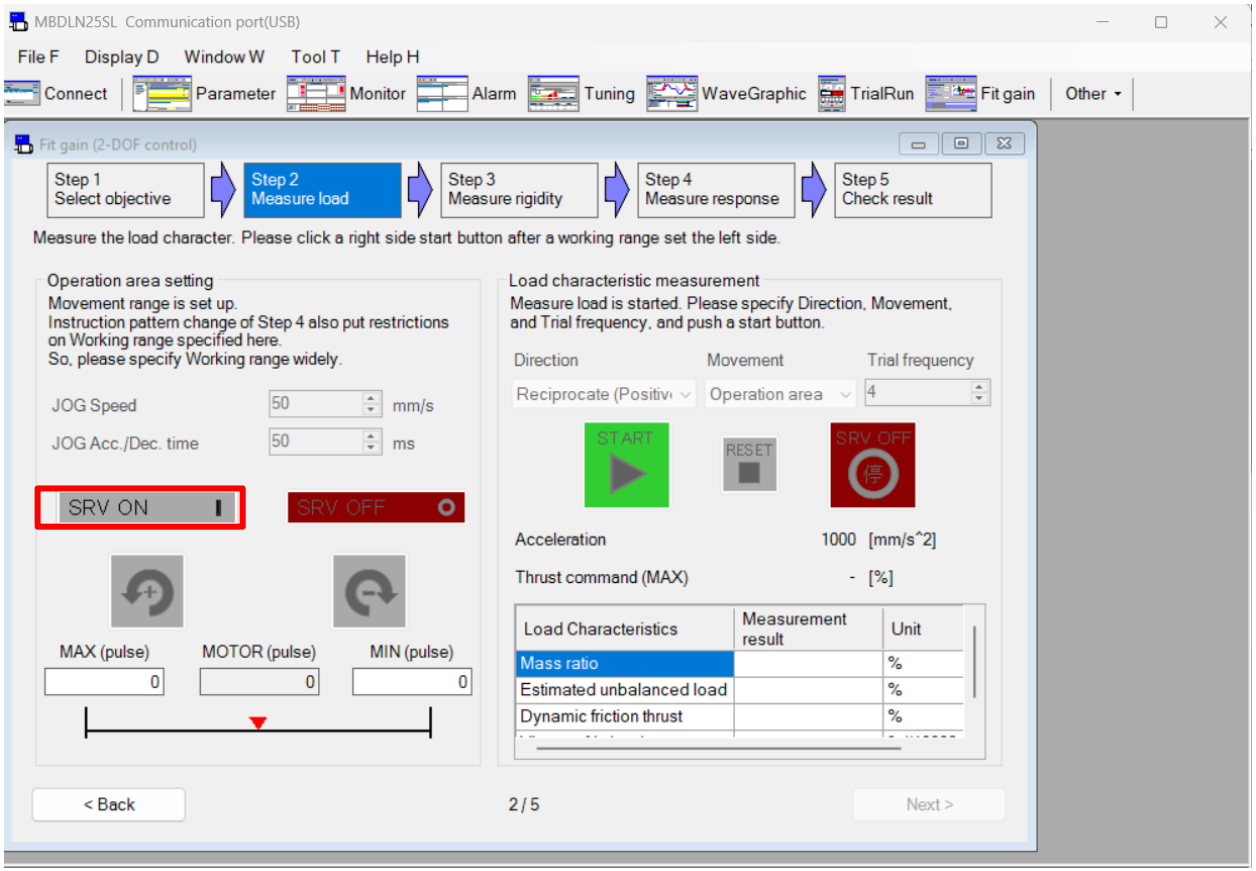
Auto tuning

- Chose width of positioning completion you want
- Smaller value, high precision you require (recomment 10)
- After that, Click “Next”



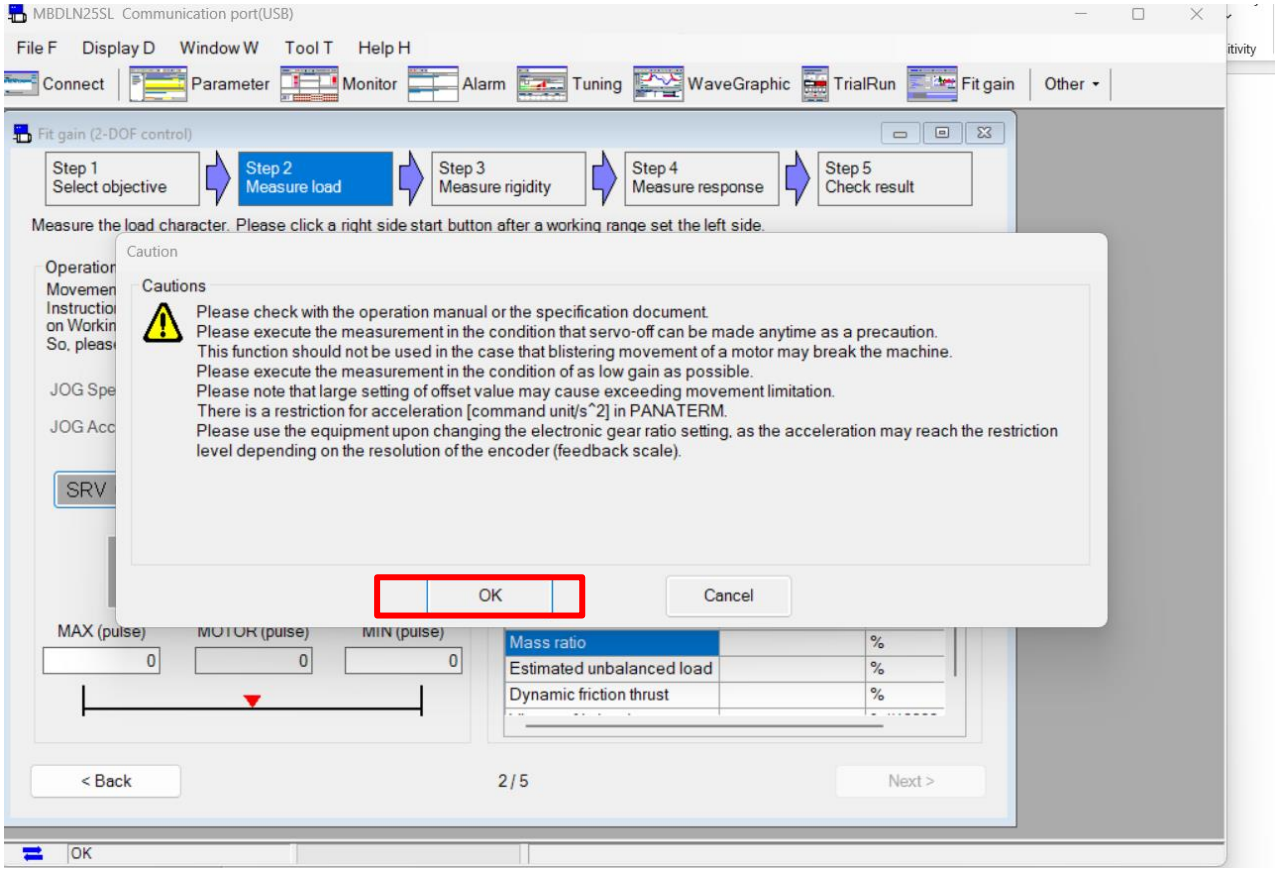
Auto tuning

- SRV ON to active axis



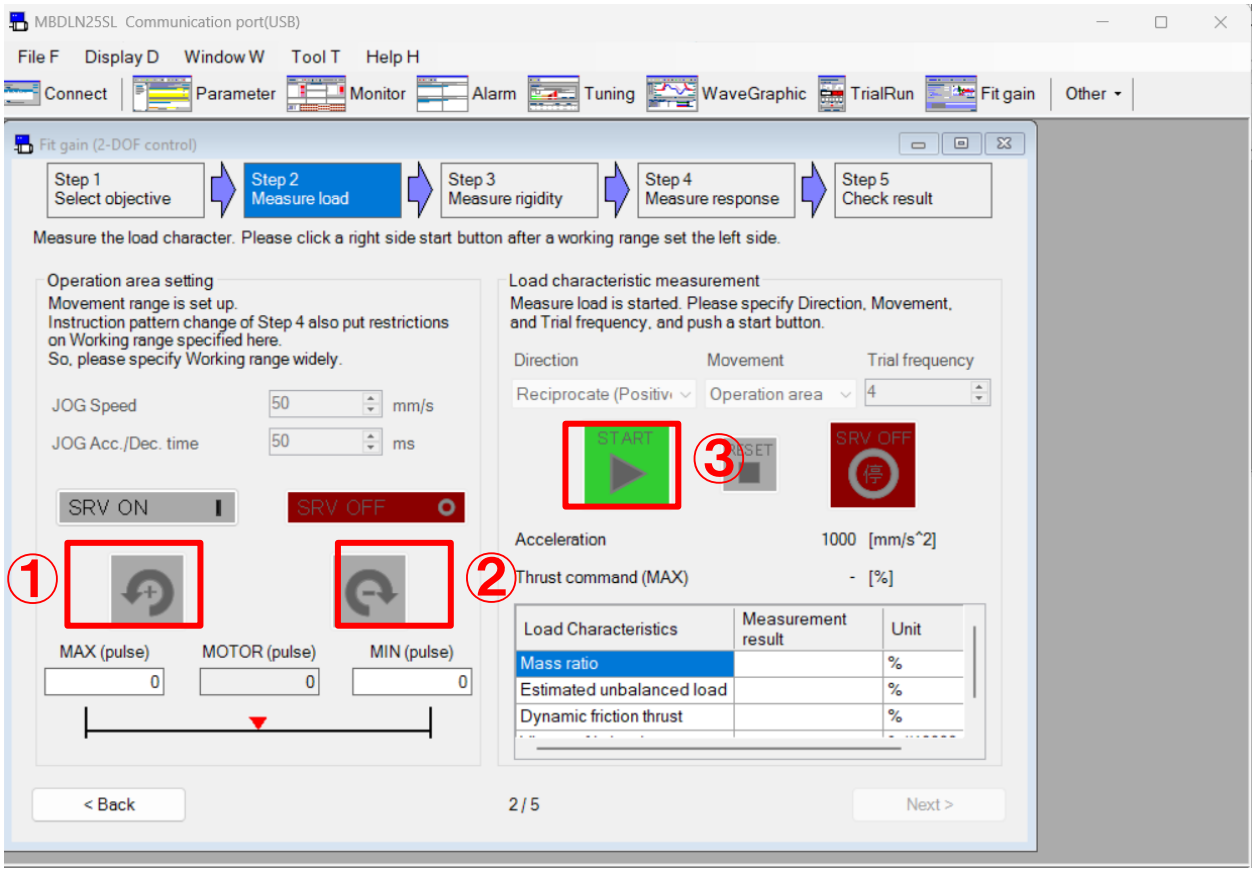
Auto tuning

- A precaution pop up, click OK to confirm



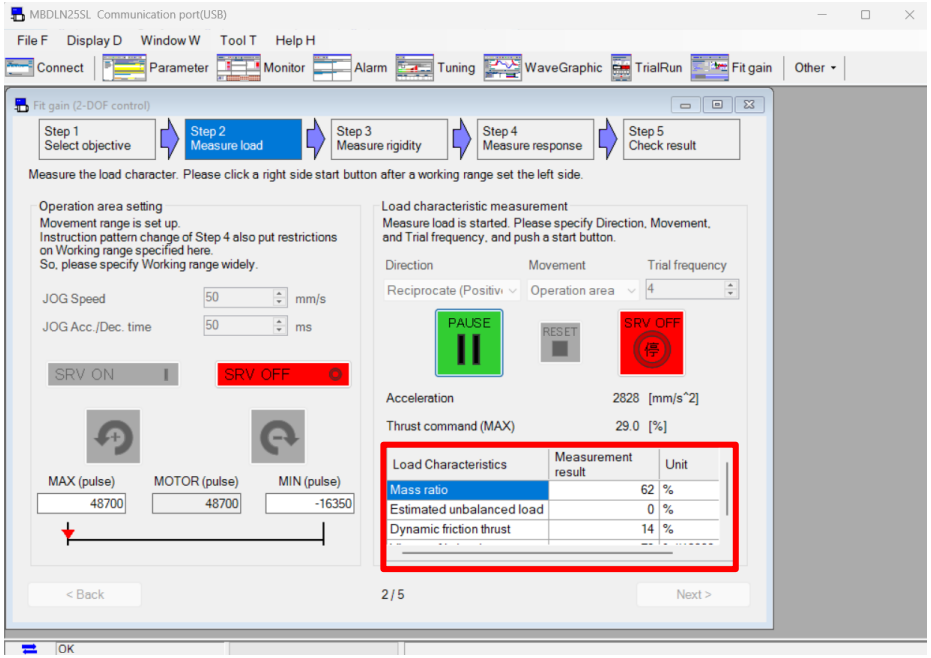
Auto tuning

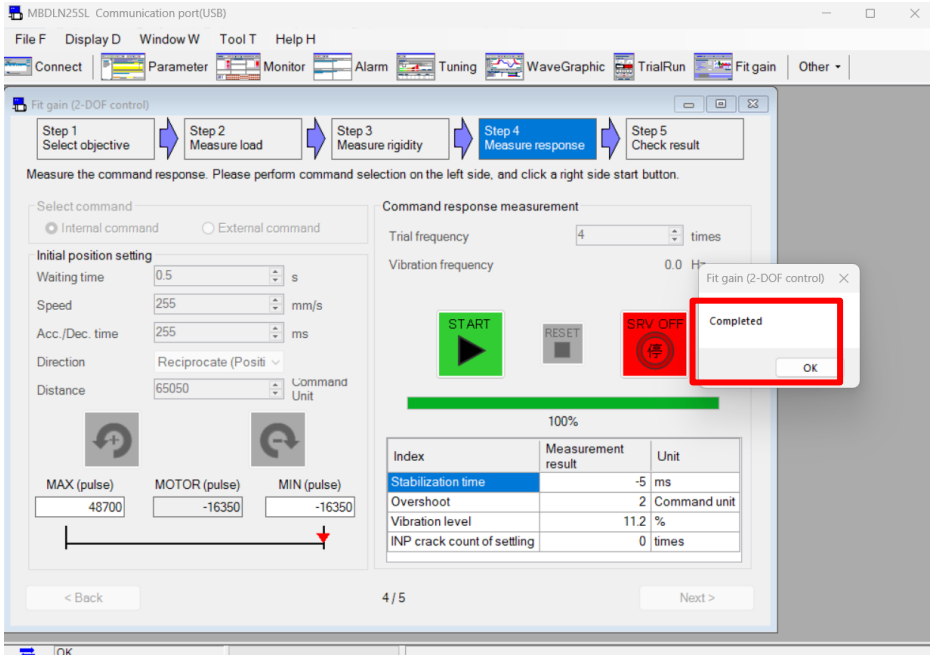
- ① Jog positive to apply positive operation area
- ② Jog negative to apply negative operation area
- ③ Click Start to measure mass ratio



Auto tuning

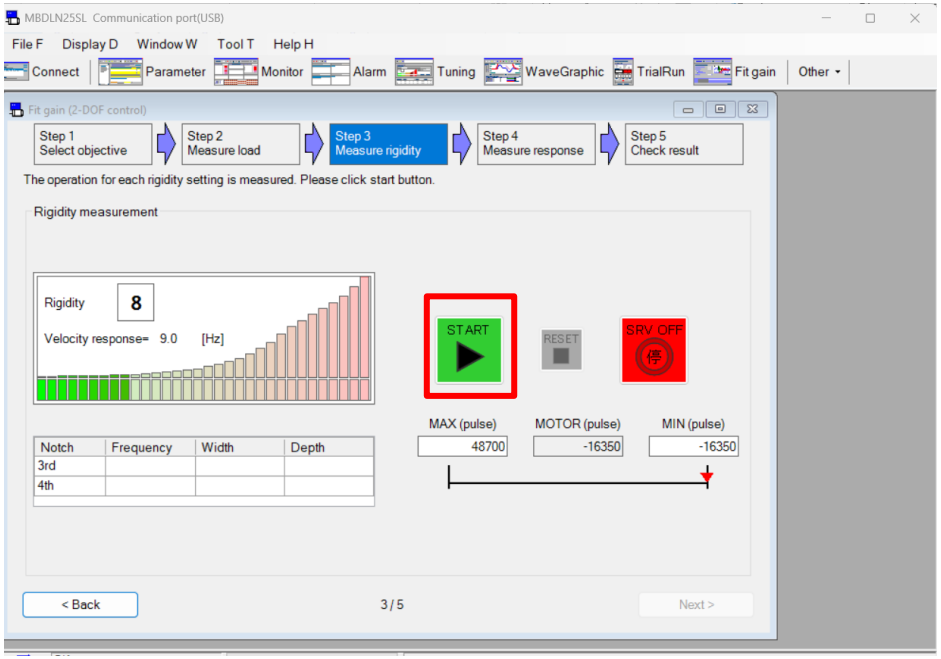
- You need to install actual load on block, if not, load measurement may failed
- Motor will move a short distance if measure load successful
- Wait for driver complete measurement, a complete pop up will show. Click OK to next step

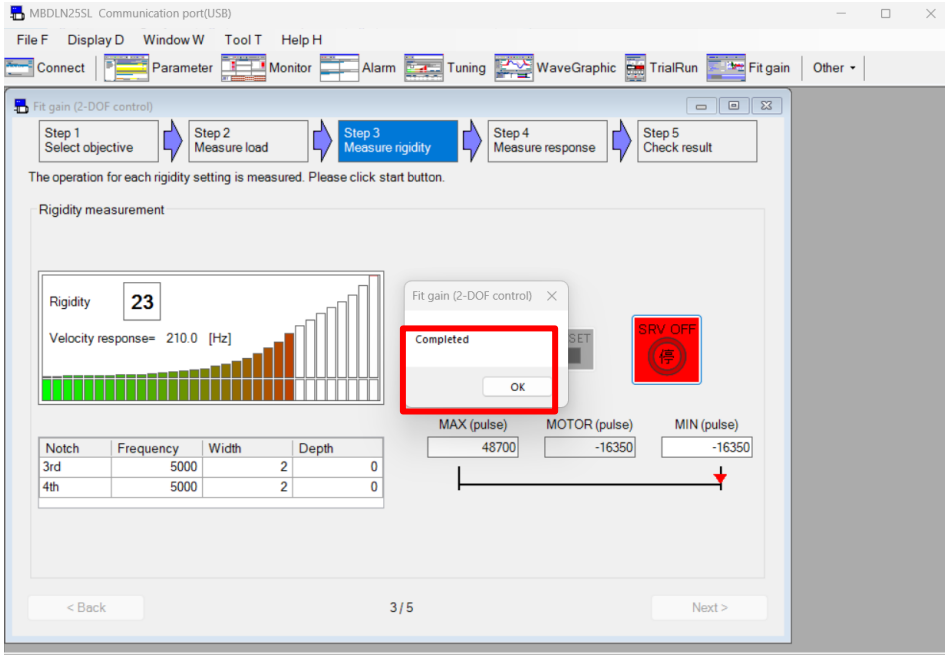




Auto tuning

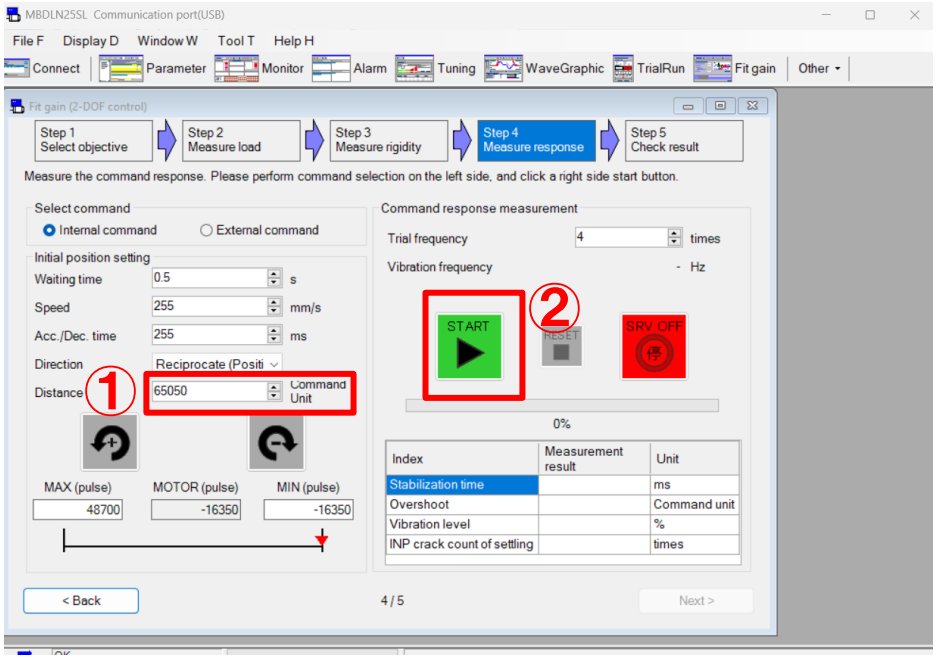
- This step measure ridigity
- Click start to process
- Wait until process complete

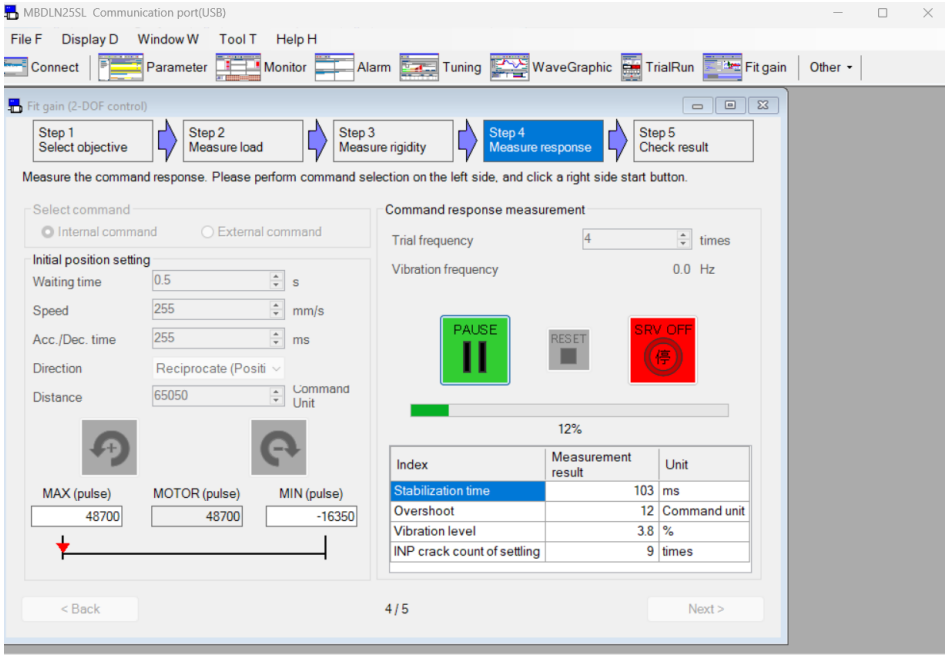




Auto tuning

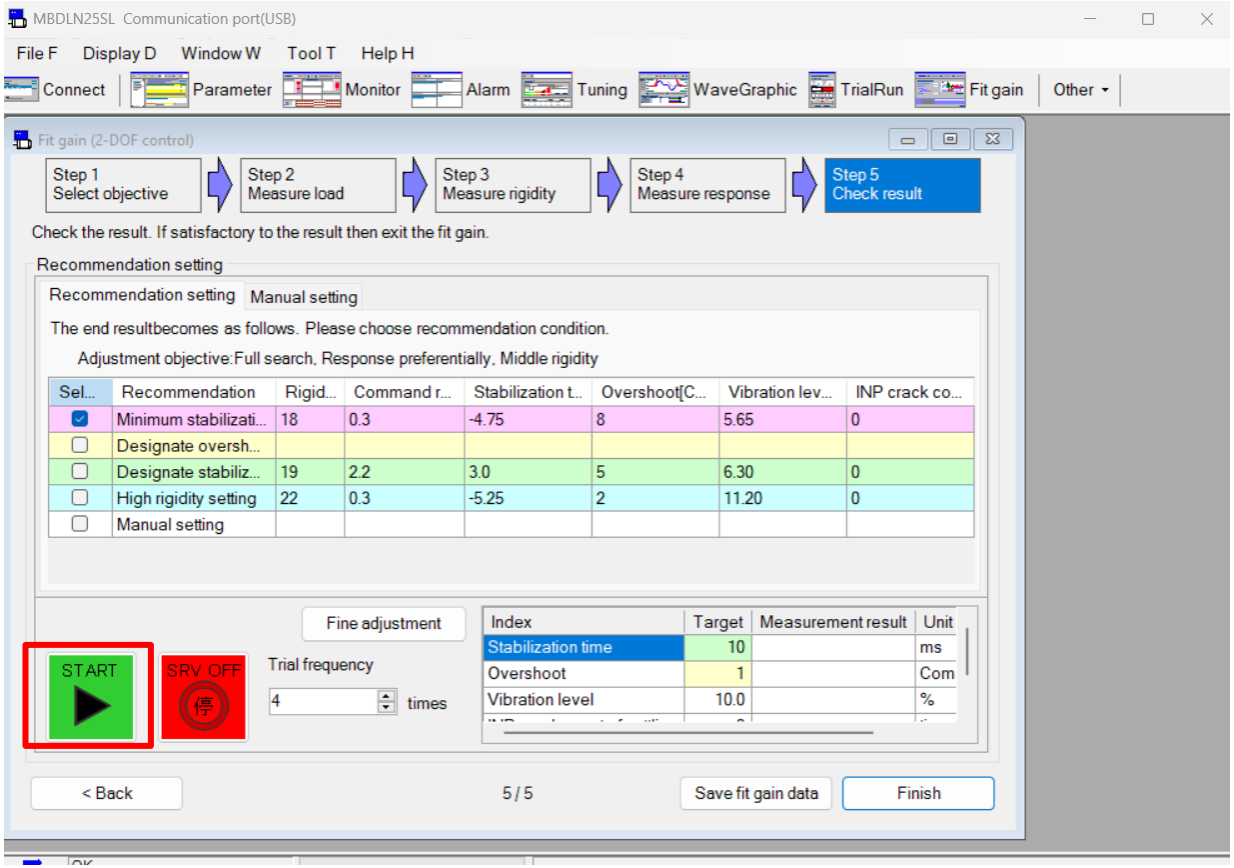
- This step measure and adjust tuning gain
- ①Please adjust distance as max operation area.
- Distance = Max (Pulse) – Min (Pulse)
- ②Click start to process and wait for completion





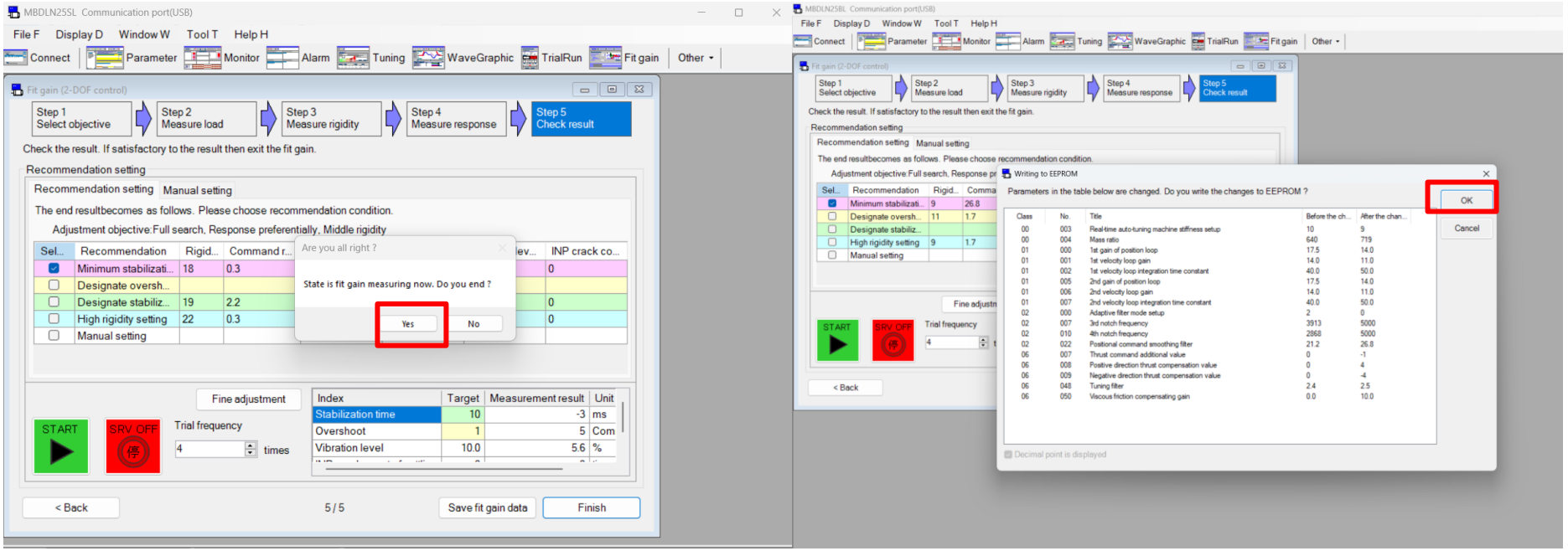
Auto tuning

- Result tuning data show up.
- You can Start to check axes operation after auto tuning



Auto tuning

- Click finish to apply new parameter
- Click yes to finish fit gain
- A comparison table show these para are going to change
- Click OK to apply new tuning parameter



Inquiry

MISUMI Contact for Linear Motor Actuators

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Singapore	MISUMI SOUTH EAST ASIA PTE. LTD.	TECHNICAL SUPPORT TEAM	techsupport@misumi.com.sg
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Vietnam	MISUMI VIETNAM CO.,LTD.	TECHNICAL SUPPORT TEAM	ts@misumi.com.vn
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Version Updated

Revision	Date	Reviser	Approver	Remark
1.0	2024.12.21	Nguyen	Lee.Woo.Sup	First version

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