

..... 1

..... 1

..... 2

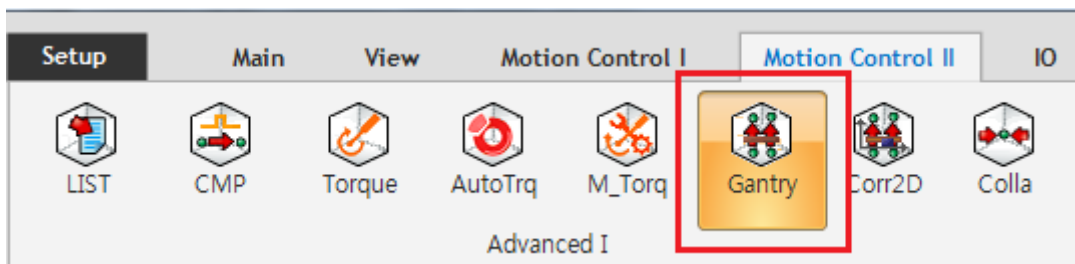
..... 4

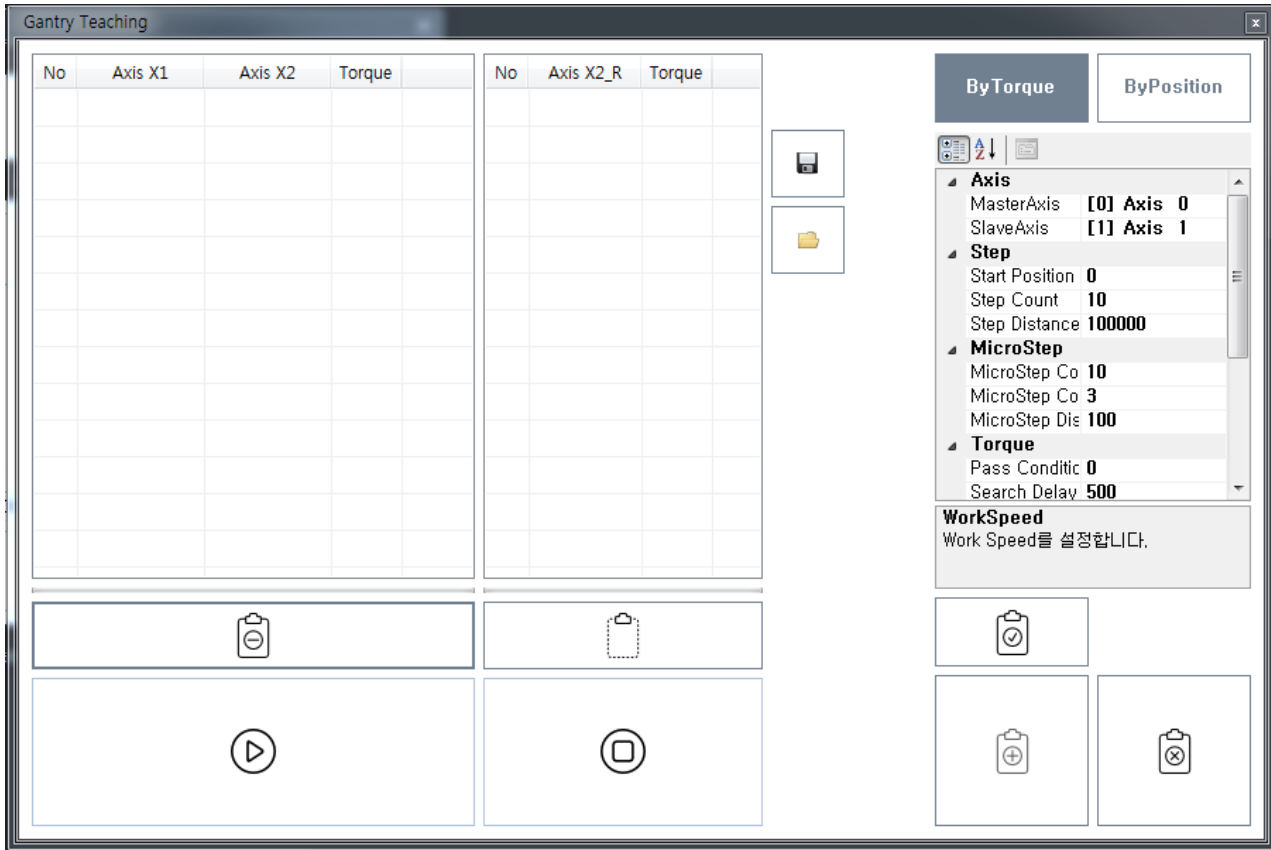
# Gantry Teaching

x

- Master Slave , Step Distance MicroStep Distance .
- Gantry Step Distance , MicroStep , 가 가
- 가 Master Slave 가 .
- Step Count table .
- Table , Master-Slave Master , Slave 가 .
- Table
  - (1000, 990), (2000, 994) , 가 1500 , Slave 992 .

- ComilIDE Gantry Gantry Teaching .





**Axis**

- Master Axis : Gantry Master
- SlaveAxis : Gantry Slave

**Step**

- Start Position : Teaching
  - Start Position 0
- Step Count, Step Distance :
  - Step Count , Step Distance ,
  - StepCount \* StepDistance 가 ,
  - , Step Count = 10, Step Distance = 100 , 1,000

**MicroStep**

- MicroStep Count :
  - + / - MicroStep Count
  - MicroStep Count , Step

- MicroStep CountLimit : MicroStep Torque가 CountLimit 가
  - , CountLimit = 3 1,2,3 1.2, 2.1, 2.5 ,
  - , + - .
- MicroStep Distance : MicroStep
  - 가 .

### Torque

- Pass Condition : Pass Condition Step 가 ,
- Search Delay : Micro Step Delay .
- Torque Limit : , .
- Torque Warning : , Warning

The screenshot shows the Gantry Teaching software interface. It features two data tables and a configuration panel on the right.

| No | Axis 0 | Axis 1 | Torque |
|----|--------|--------|--------|
| 0  | 0      | -300   | 1      |
| 1  | 20000  | 19800  | 0,8    |
| 2  | 40000  | 39800  | 0,2    |
| 3  | 60000  | 59800  | 0,6    |
| 4  | 80000  | 79900  | 1,6    |
| 5  | 100000 | 99900  | 1,1    |
| 6  | 120000 | 119900 | 1,1    |
| 7  | 140000 | 139900 | 1      |
| 8  | 160000 | 159900 | 0,8    |
| 9  | 180000 | 179900 | 0,3    |
| 10 | 200000 | 199900 | 2      |

| No | Axis 1 | Torque |
|----|--------|--------|
| 0  | 0      | 13,7   |
| 1  | 100    | 36,9   |
| 2  | 200    | 40,8   |
| 3  | 300    | 45     |
| 4  | -100   | 6      |
| 5  | -200   | 2,4    |
| 6  | -300   | 1      |
| 7  | -400   | 5      |
| 8  | -500   | 7,3    |
| 9  | -600   | 9,8    |

Configuration Panel (ByTorque):

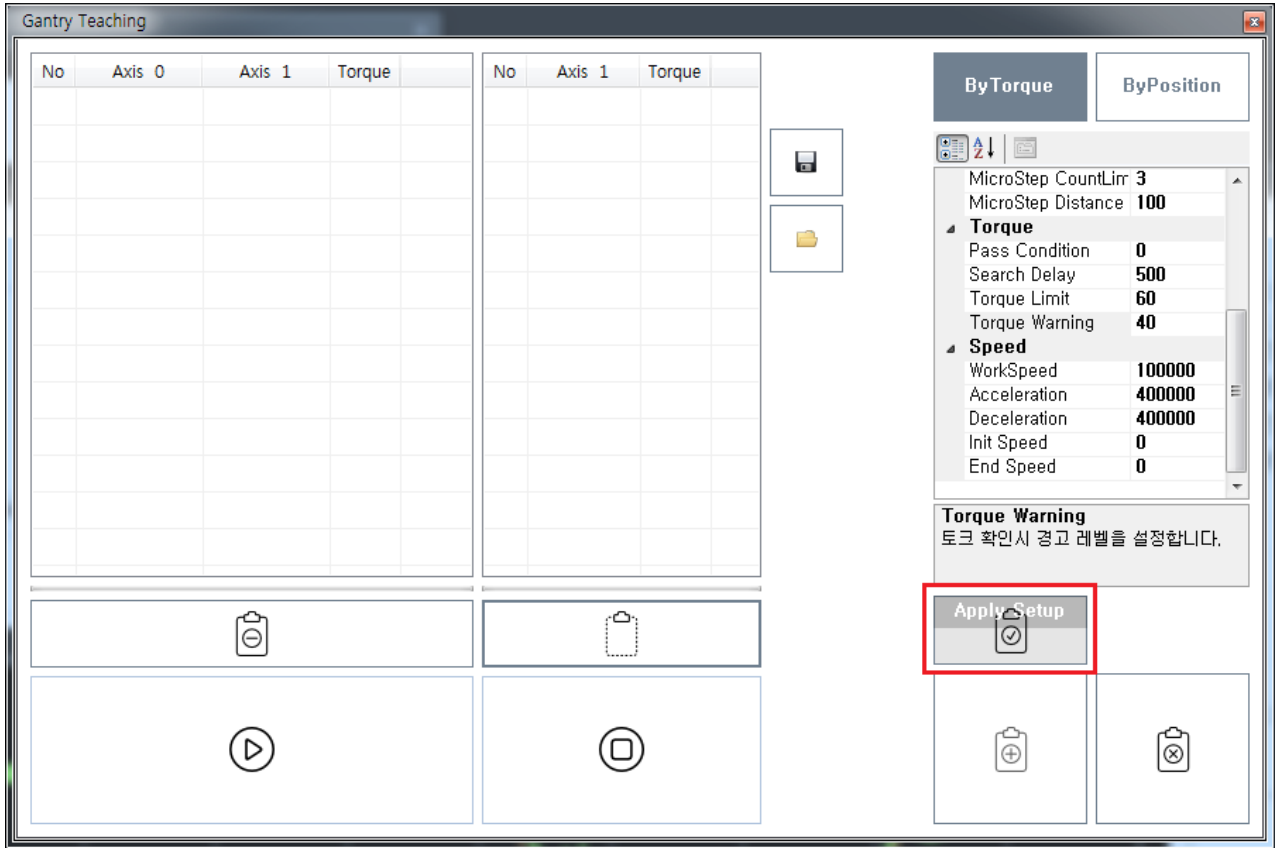
- Start Position: 0
- Step Count: 10
- Step Distance: 20000
- MicroStep:
  - MicroStep Count: 10
  - MicroStep CountLim: 3
  - MicroStep Distance: 100
- Torque:
  - Pass Condition: 0
  - Search Delay: 500
  - Torque Limit: 60
  - Torque Warning: 40
- Speed

Torque Warning: 토크 확인시 경고 레벨을 설정합니다.

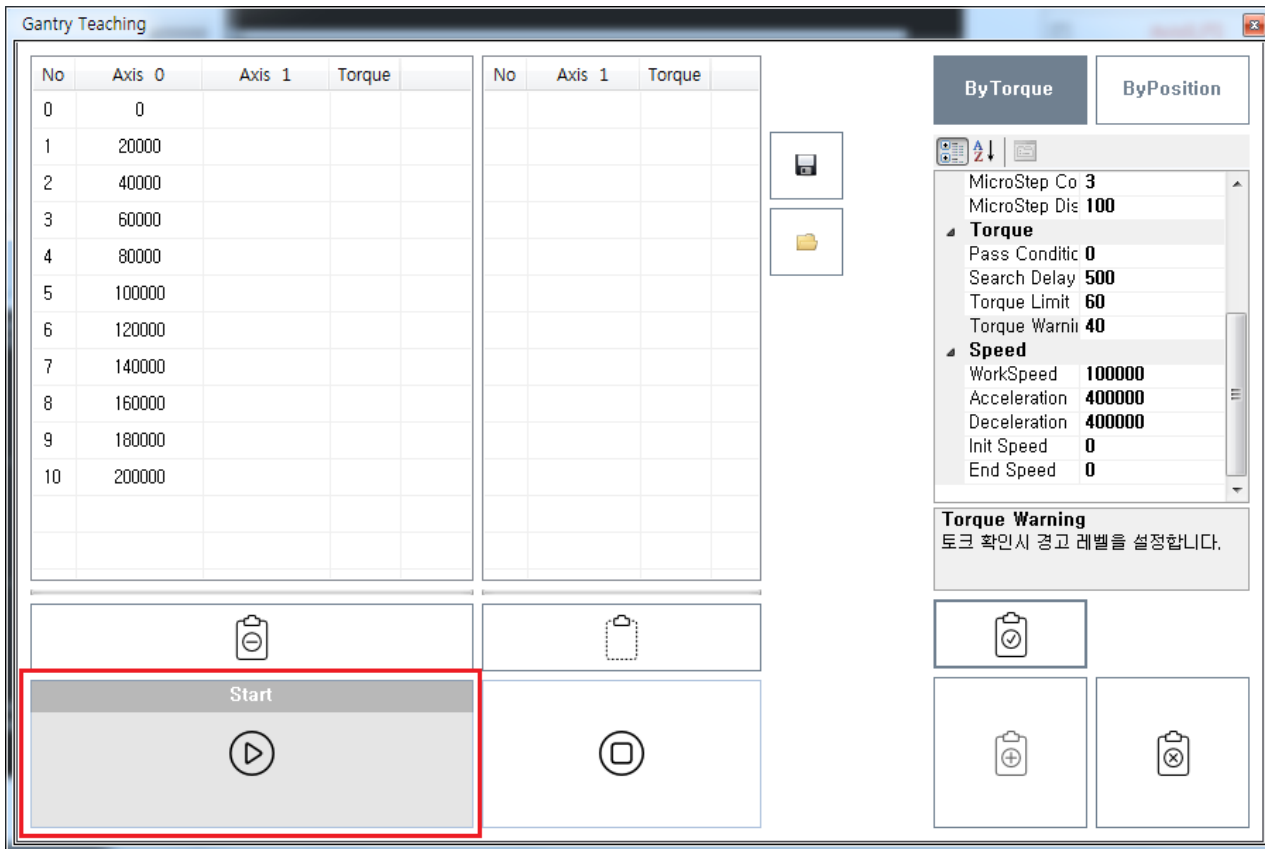
### Speed

- Teaching .

- ApplySetup

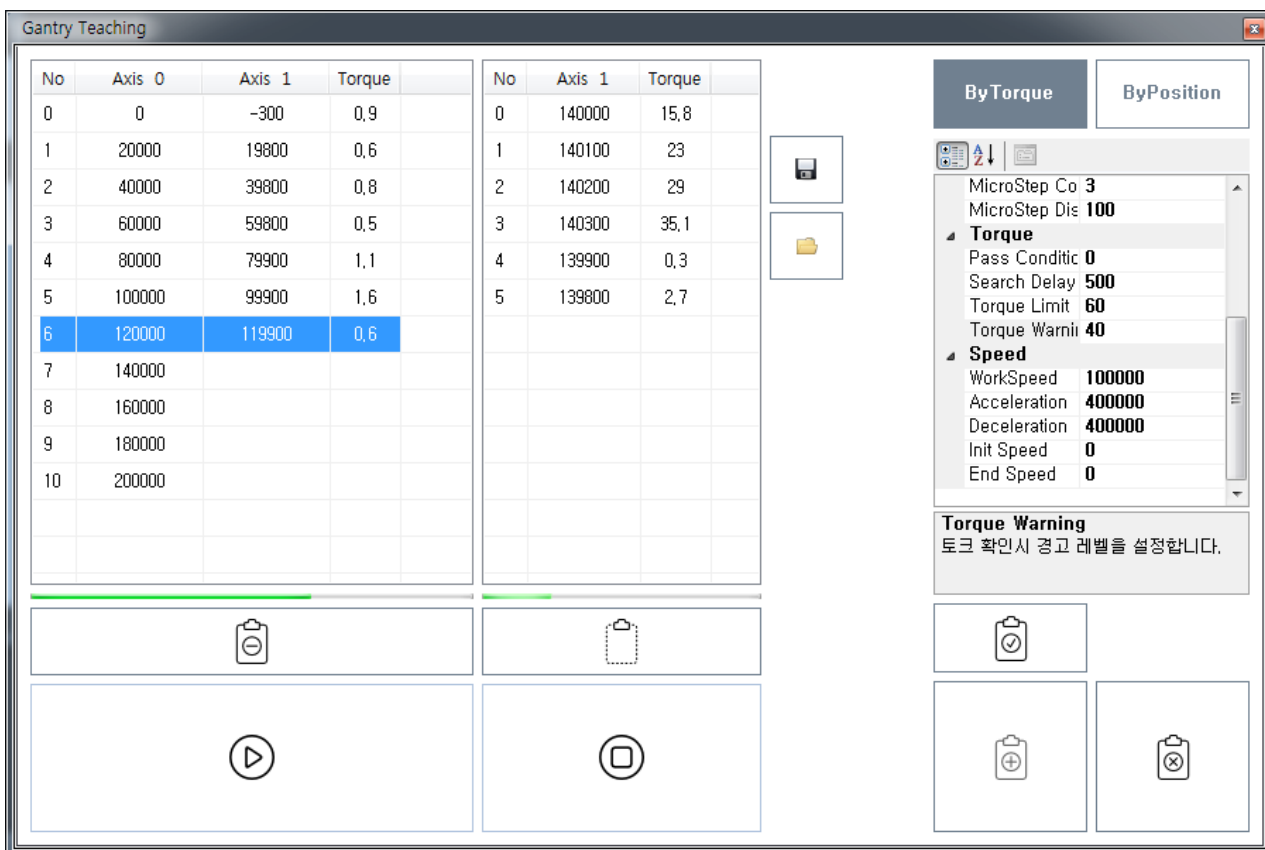


- Start Teaching



• Teaching

Teaching



- Teaching Register To Axis

The screenshot shows the 'Gantry Teaching' software interface. It contains two data tables, a parameter configuration panel, and a control area.

| No | Axis 0 | Axis 1 | Torque |
|----|--------|--------|--------|
| 0  | 0      | -300   | 0,9    |
| 1  | 20000  | 19800  | 0,6    |
| 2  | 40000  | 39800  | 0,8    |
| 3  | 60000  | 59800  | 0,5    |
| 4  | 80000  | 79900  | 1,1    |
| 5  | 100000 | 99900  | 1,6    |
| 6  | 120000 | 119900 | 0,6    |
| 7  | 140000 | 139900 | 0,3    |
| 8  | 160000 | 159900 | 0,1    |
| 9  | 180000 | 179900 | 0,8    |
| 10 | 200000 | 199900 | 2,1    |

| No | Axis 1 | Torque |
|----|--------|--------|
| 0  | 20000  | 21,1   |
| 1  | 20100  | 28,5   |
| 2  | 20200  | 34,5   |
| 3  | 20300  | 40     |
| 4  | 19900  | 4,1    |
| 5  | 19800  | 0,6    |
| 6  | 19700  | 2,3    |
| 7  | 19600  | 6      |
| 8  | 19500  | 8,7    |

Parameter Configuration Panel (ByTorque):

- MicroStep Co: 3
- MicroStep Dis: 100
- Torque**
  - Pass Conditic: 0
  - Search Delay: 500
  - Torque Limit: 60
  - Torque Warni: 40
- Speed**
  - WorkSpeed: 100000
  - Acceleration: 400000
  - Deceleration: 400000
  - Init Speed: 0
  - End Speed: 0

Torque Warning: 토크 확인시 경고 레벨을 설정합니다.

Control Area: The 'Register To Axis' button (with a plus icon) is highlighted with a red box.

- , Master-Slave

The screenshot shows the 'Motor Monitor' software interface with three status boxes:

- Axis 0 ON
- Axis 1 SLAVE\_MODE
- Axis 2 OFF

- Step Step MicroStep

The screenshot shows the 'Gantry Teaching' application window. It features two data tables side-by-side, a central control area with icons for save, folder, play, and stop, and a right-hand panel for parameter configuration.

| No | Axis 0 | Axis 1 | Torque |
|----|--------|--------|--------|
| 0  | 0      | -300   | 0,9    |
| 1  | 20000  | 19800  | 0,6    |
| 2  | 40000  | 39800  | 0,8    |
| 3  | 60000  | 59800  | 0,5    |
| 4  | 80000  | 79900  | 1,1    |
| 5  | 100000 | 99900  | 1,6    |
| 6  | 120000 | 119900 | 0,6    |
| 7  | 140000 | 139900 | 0,3    |
| 8  | 160000 | 159900 | 0,1    |
| 9  | 180000 | 179900 | 0,8    |
| 10 | 200000 | 199900 | 2,1    |

| No | Axis 1 | Torque |
|----|--------|--------|
| 0  | 20000  | 21,1   |
| 1  | 20100  | 28,5   |
| 2  | 20200  | 34,5   |
| 3  | 20300  | 40     |
| 4  | 19900  | 4,1    |
| 5  | 19800  | 0,6    |
| 6  | 19700  | 2,3    |
| 7  | 19600  | 6      |
| 8  | 19500  | 8,7    |

Control buttons: Save (floppy disk), Folder (yellow folder), Play (triangle in circle), Stop (square in circle).

Right Panel: 'ByTorque' and 'ByPosition' tabs. Parameters include MicroStep Co (3), MicroStep Dis (100), Torque (Pass Conditic 0, Search Delay 500, Torque Limit 60, Torque Warnii 40), Speed (WorkSpeed 100000, Acceleration 400000, Deceleration 400000, Init Speed 0, End Speed 0). A 'Torque Warning' section indicates '토크 확인시 경고 레벨을 설정합니다.'

- Save txt UserApplication API

The screenshot shows a Windows File Explorer window titled 'Save The Gantry Teaching info to File'. The address bar shows the path: 'Projects (F:) > ComiIDE > ComiIDE > bin > Debug > WorkData > EtherCAT'. The file list shows 'GantryTeaching.txt' with a modification date of '2018-06-11 오후 3:05' and a size of '1KB'. The 'File name' field contains 'GantryTeaching.txt'. The 'File type' dropdown is set to 'Text Data (\*.txt)', which is highlighted with a red box. Other visible file types include 'Yml File (\*.yaml)' and 'Csv Data (\*.csv)'.

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