

..... 1

..... 1

..... 2

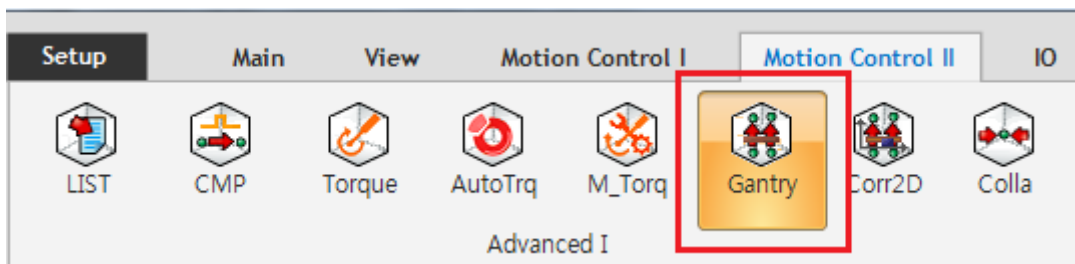
..... 4

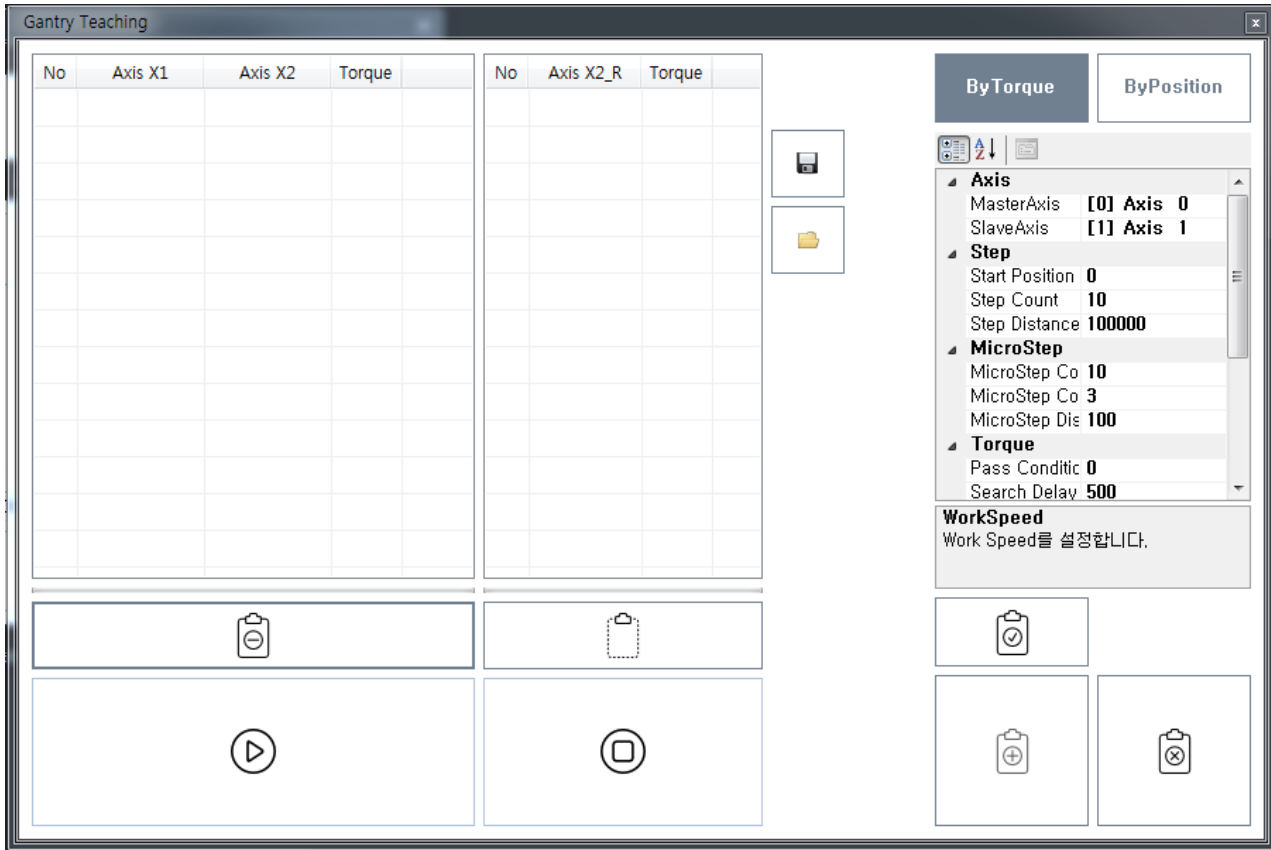
# Gantry Teaching

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):

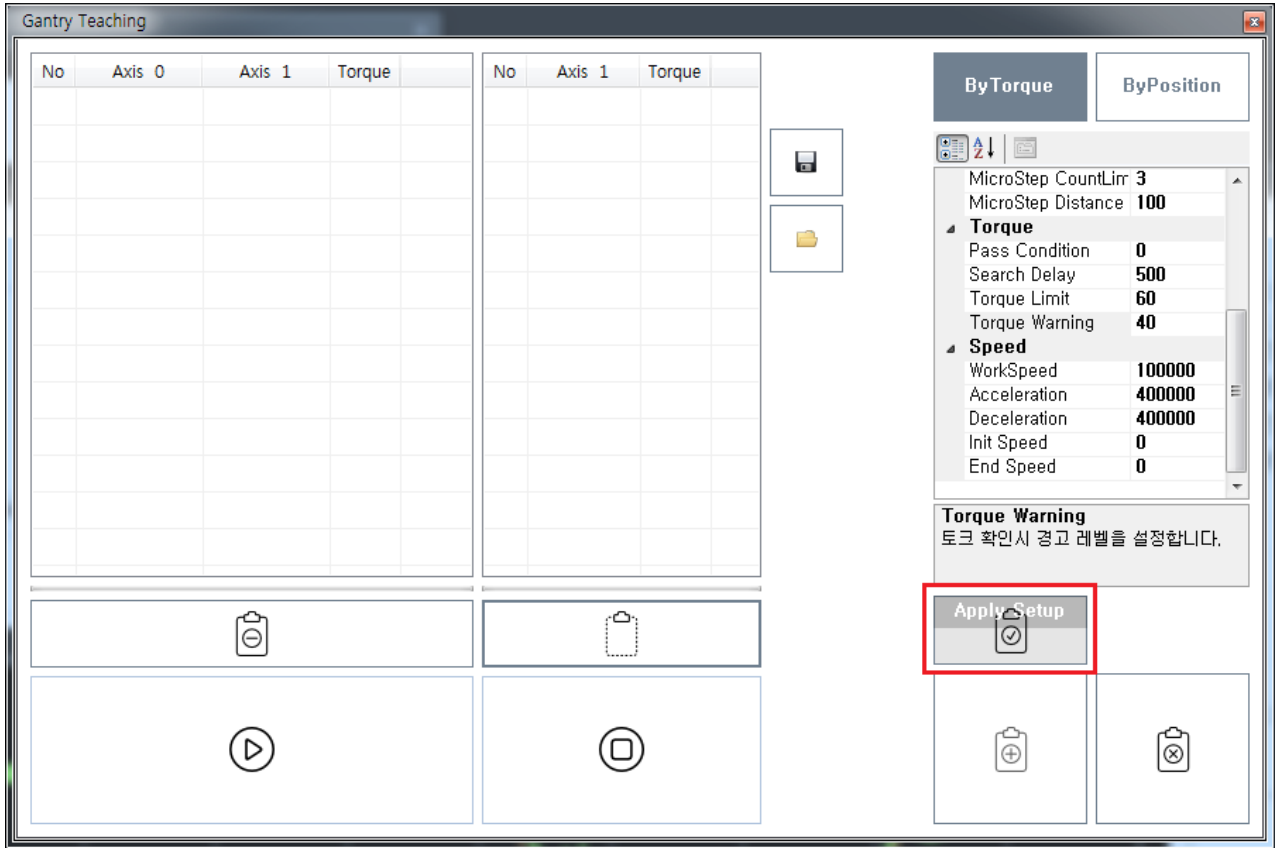
- Start Position: 0
- Step Count: 10
- Step Distance: 20000
- MicroStep:
  - MicroStep Count: 10
  - MicroStep CountLim: 3
  - MicroStep Distance: 100
- Torque:
  - Pass Condition: 0
  - Search Delay: 500
  - Torque Limit: 60
  - Torque Warning: 40
- Speed

Torque Warning: 토크 확인시 경고 레벨을 설정합니다.

### Speed

- Teaching

- ApplySetup



- Start Teaching

The screenshot shows the Gantry Teaching software interface. It features two data tables, a control panel, and a parameter settings panel.

| No | Axis 0 | Axis 1 | Torque |
|----|--------|--------|--------|
| 0  | 0      |        |        |
| 1  | 20000  |        |        |
| 2  | 40000  |        |        |
| 3  | 60000  |        |        |
| 4  | 80000  |        |        |
| 5  | 100000 |        |        |
| 6  | 120000 |        |        |
| 7  | 140000 |        |        |
| 8  | 160000 |        |        |
| 9  | 180000 |        |        |
| 10 | 200000 |        |        |

| No | Axis 1 | Torque |
|----|--------|--------|
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |
|    |        |        |

**Start** [Play Button]

**ByTorque** | **ByPosition**

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

**Torque Warning**  
토크 확인시 경고 레벨을 설정합니다.

• Teaching

Teaching

The screenshot shows the Gantry Teaching software interface after a teaching step. Row 6 of the first table is highlighted in blue.

| 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 |        |        |
| 8  | 160000 |        |        |
| 9  | 180000 |        |        |
| 10 | 200000 |        |        |

| No | Axis 1 | Torque |
|----|--------|--------|
| 0  | 140000 | 15,8   |
| 1  | 140100 | 23     |
| 2  | 140200 | 29     |
| 3  | 140300 | 35,1   |
| 4  | 139900 | 0,3    |
| 5  | 139800 | 2,7    |

**Start** [Play Button]

**ByTorque** | **ByPosition**

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

**Torque Warning**  
토크 확인시 경고 레벨을 설정합니다.

- Teaching Register To Axis

The screenshot shows the 'Gantry Teaching' software interface. It features two data tables, a parameter settings panel on the right, and a control area at the bottom. The 'Register To Axis' button is highlighted with a red box.

| 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 Settings Panel:

- ByTorque | ByPosition
- 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:

- Register To Axis (highlighted with a red box)

- , Master-Slave

The screenshot shows the 'Motor Monitor' software interface. It displays the status of three axes:

- 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. The left table has columns 'No', 'Axis 0', 'Axis 1', and 'Torque'. The right table has columns 'No', 'Axis 1', and 'Torque'. Below the tables are several control buttons: a play button, a stop button, a save button, and a folder icon. On the right side, there is a configuration panel with tabs 'ByTorque' and 'ByPosition'. The 'ByTorque' tab is active, showing parameters for MicroStep Co (3), MicroStep Dis (100), Torque (Pass Conditic 0, Search Delay 500, Torque Limit 60, Torque Warnii 40), and Speed (WorkSpeed 100000, Acceleration 400000, Deceleration 400000, Init Speed 0, End Speed 0). A 'Torque Warning' section at the bottom right contains the text '토크 확인시 경고 레벨을 설정합니다.' (Set warning level when checking torque).

- 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', type '텍스트 문서', and size '1KB'. The '파일 이름(N):' field contains 'GantryTeaching.txt'. The '파일 형식(I):' dropdown menu is open, showing options: 'Txt Data (\*.txt)', 'Yml File (\*.yaml)', 'Txt Data (\*.txt)', and 'Csv Data (\*.csv)'. The 'Txt Data (\*.txt)' option is highlighted with a red box.

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