

..... 1

..... 1

..... 2

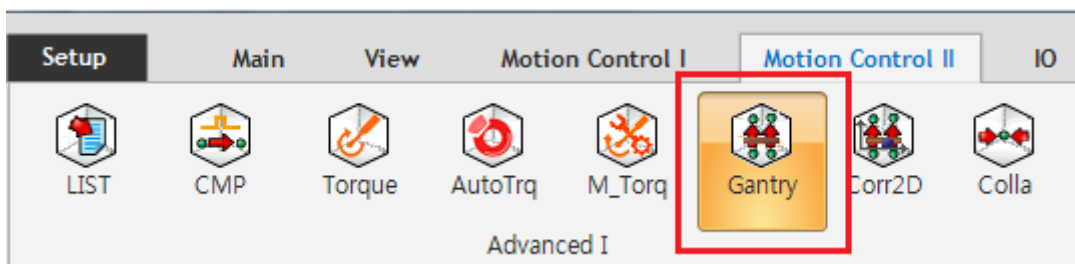
..... 4

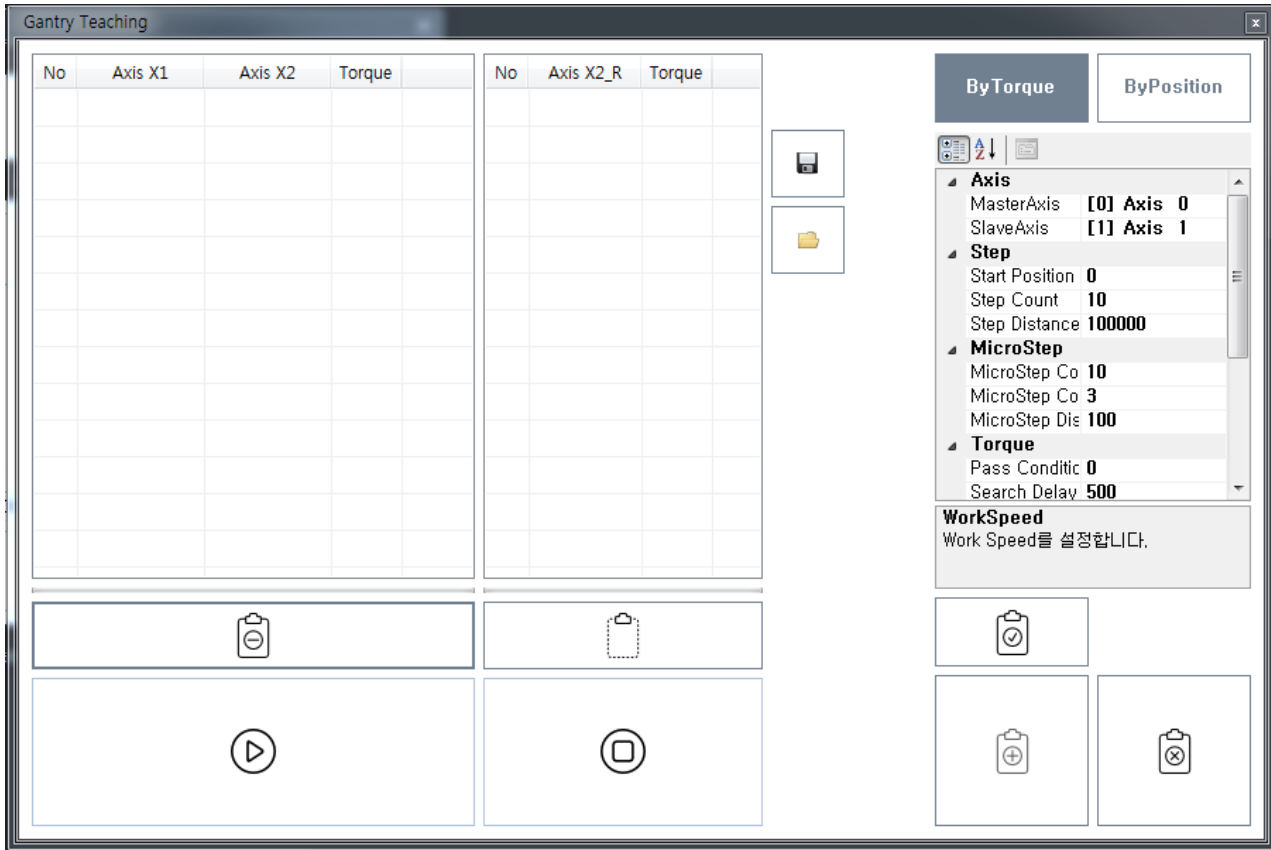
Gantry Teaching

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

- ComilDE 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):

- Step: 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

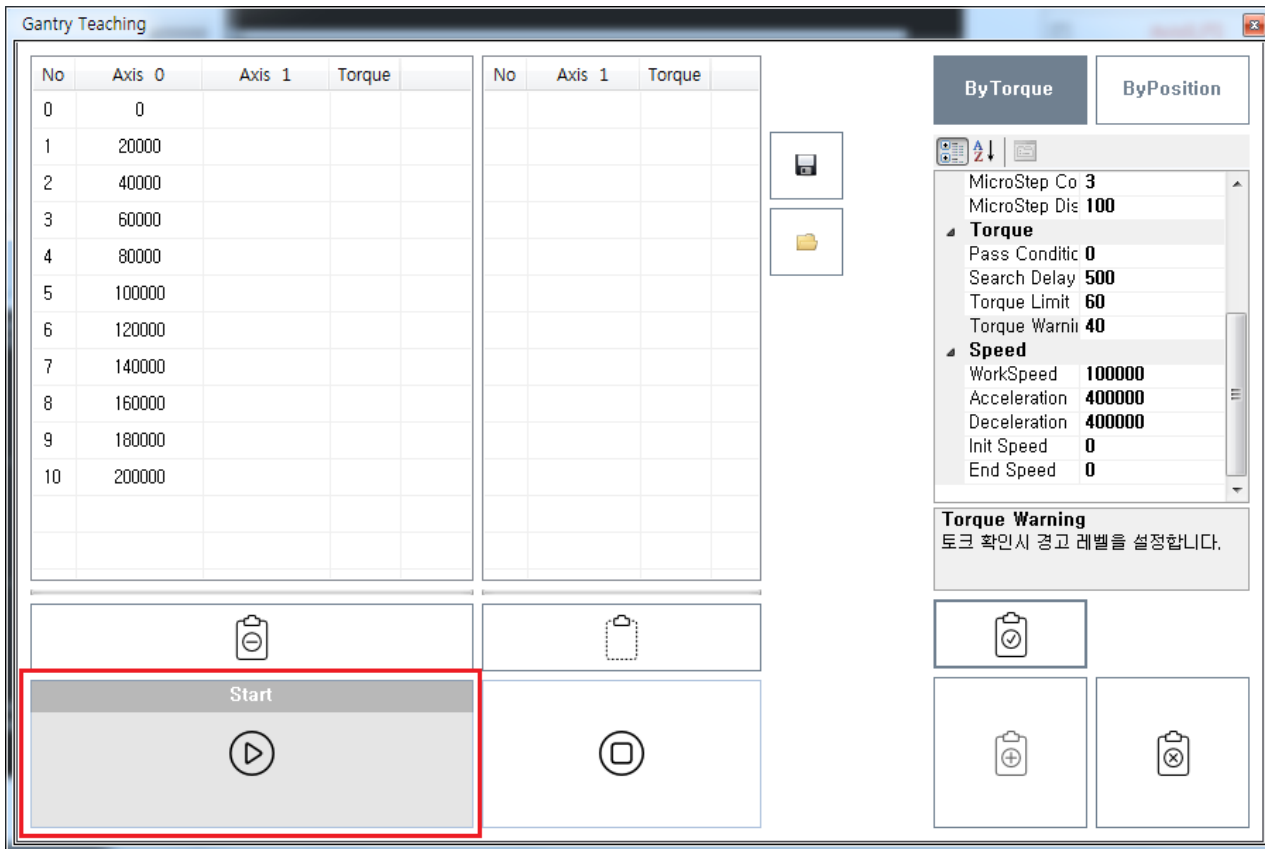
- ApplySetup

The screenshot shows the 'Gantry Teaching' software interface. On the left, there are two empty tables for data entry. The first table has columns for 'No', 'Axis 0', 'Axis 1', and 'Torque'. The second table has columns for 'No', 'Axis 1', and 'Torque'. Below these tables are icons for saving, loading, and running. On the right, there is a settings panel with two tabs: 'ByTorque' (selected) and 'ByPosition'. The 'ByTorque' tab contains the following settings:

- MicroStep CountLim: 3
- MicroStep Distance: 100
- Torque**
 - Pass Condition: 0
 - Search Delay: 500
 - Torque Limit: 60
 - Torque Warning: 40
- Speed**
 - WorkSpeed: 100000
 - Acceleration: 400000
 - Deceleration: 400000
 - Init Speed: 0
 - End Speed: 0

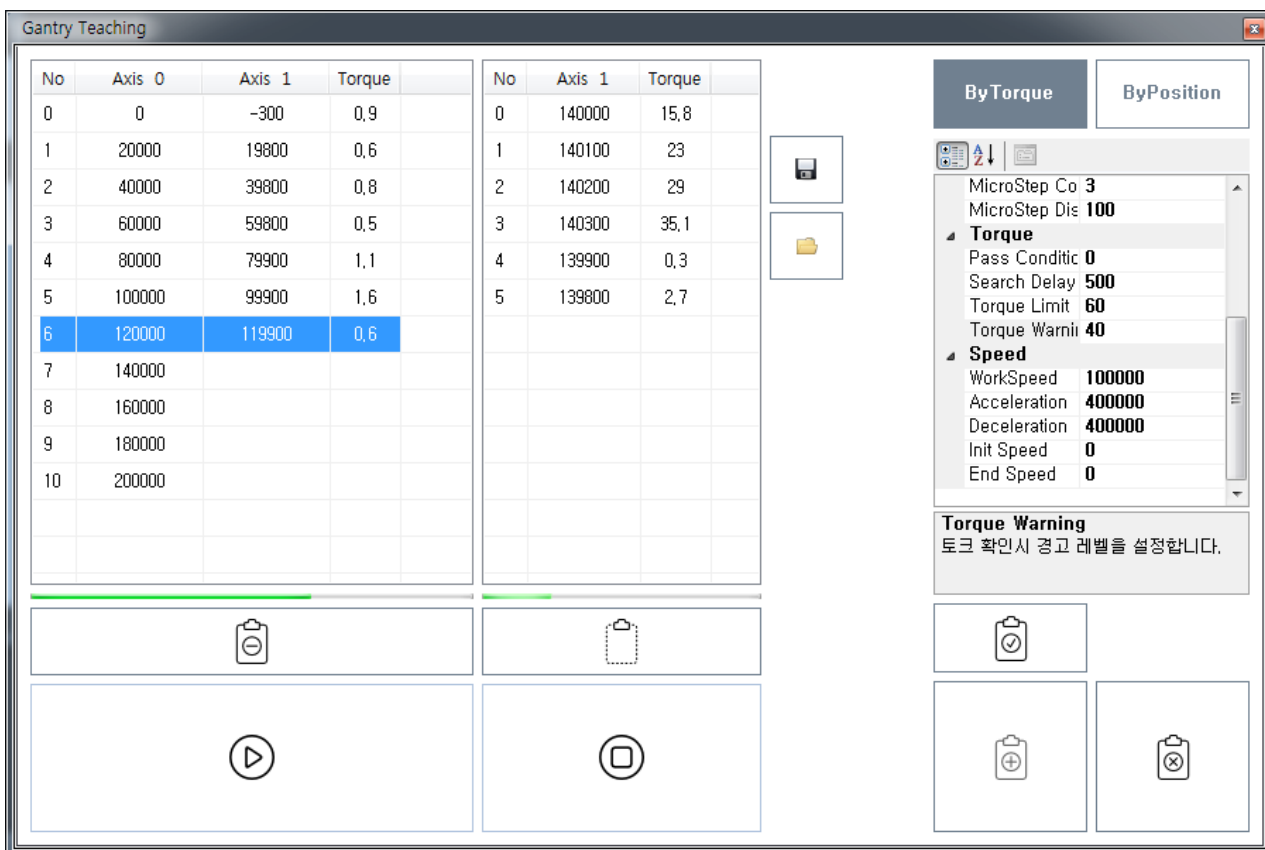
Below the settings is a 'Torque Warning' section with the text: '토크 확인시 경고 레벨을 설정합니다.' At the bottom of the settings panel, the 'Apply Setup' button is highlighted with a red box.

- Start Teaching



• Teaching

Teaching



- 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, and two buttons with plus and minus signs. 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 main pane shows a file named 'GantryTeaching.txt' with a modification date of '2018-06-11 오후 3:05', type '텍스트 문서', and size '1KB'. At the bottom, 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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