

General Motion Control Solution Pack



Main Features

- Built-in NexGMC software
- EtherCAT communication
- Provides Windows API for development
- Powerful Utility: NexMotion Studio

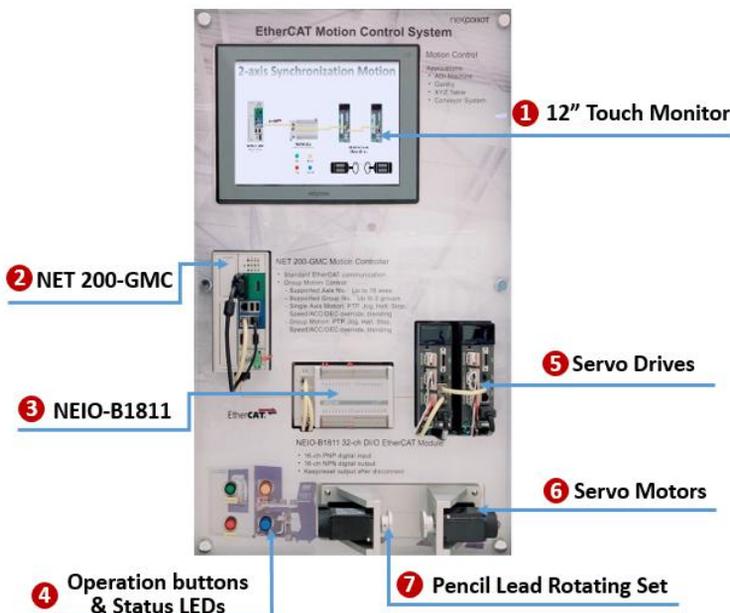
Product Overview

EtherCAT has become the major protocol of automation control because of its fast communication cycle time, flexible topology and distributed architecture. In view of this, NexCOBOT dedicates itself to develop EtherCAT solution. It provides a high precision motion control software–NexGMC, which has been verified for the compatibility with mainstream third-party servo drives and motors.

The Solution Pack shows NexCOBOT’s synchronized motion control by rotating pencil leads, which are installed on two servo motors. Through EtherCAT, it also controls I/O module that links to buttons and LED, so that users can interact during operation.

Specifications

Solution Scenario

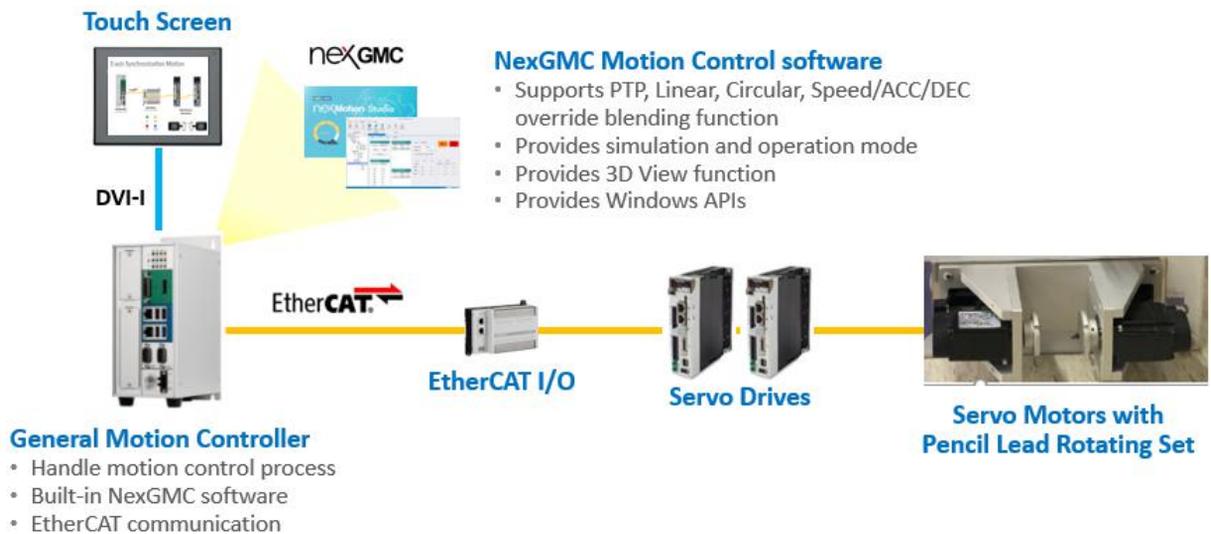


- 1 12" Touch Monitor**
 - Show demo scenario on screen
- 2 NET 200-GMC**
 - High-performance general motion controller
 - Built-in NexGMC software
 - Control EtherCAT servo drives and I/Os
 - 1ms cycle time
- 3 NEIO-B1811**
 - Connect to buttons and LEDs
 - Receive digital input signal to start demo and show the speed status with LEDs
- 4 Operation buttons & LEDs**
 - Digital input device: buttons
 - Digital output device: LEDs
- 5 Servo Drives & Motors**
 - Receive command from NET 200-GMC and control synchronize motors
- 7 Pencil Lead Rotating Set**
 - Pencil lead set into rotating set to show motors with synchronized movement

Solution Pack Configuration

- Motion Controller: NET 200-GMC
 - Intel® Celeron® processor J1900 Quad Core 2.0GHz
 - 500GB HDD, 4GB memory
 - Dual independent display (DVI-I, DP)
 - CE/FCC Class A
 - Support standard EtherCAT slave devices
- Motion Control Software: NexGMC
 - Supports cartesian coordinates machine (XY, XYZ table, XYZ&θ)
 - Supports up to 64 axes motion control
 - Supports up to 8 axes groups
 - Single axis motion function: PTP, Jog, Halt, Stop, Speed/ACC/DEC override, blending
 - Provides Windows API
 - Powerful Utility: NexMotion Studio

Solution Architecture



Target Application

- Conveyor system
- AOI machine
- Gantry
- XYZ table

Dimensions

- 50 (W) x 85 (L) x 13 (H) cm

Ordering Information

- **General Motion Control Solution Pack**
P/N (TBC)