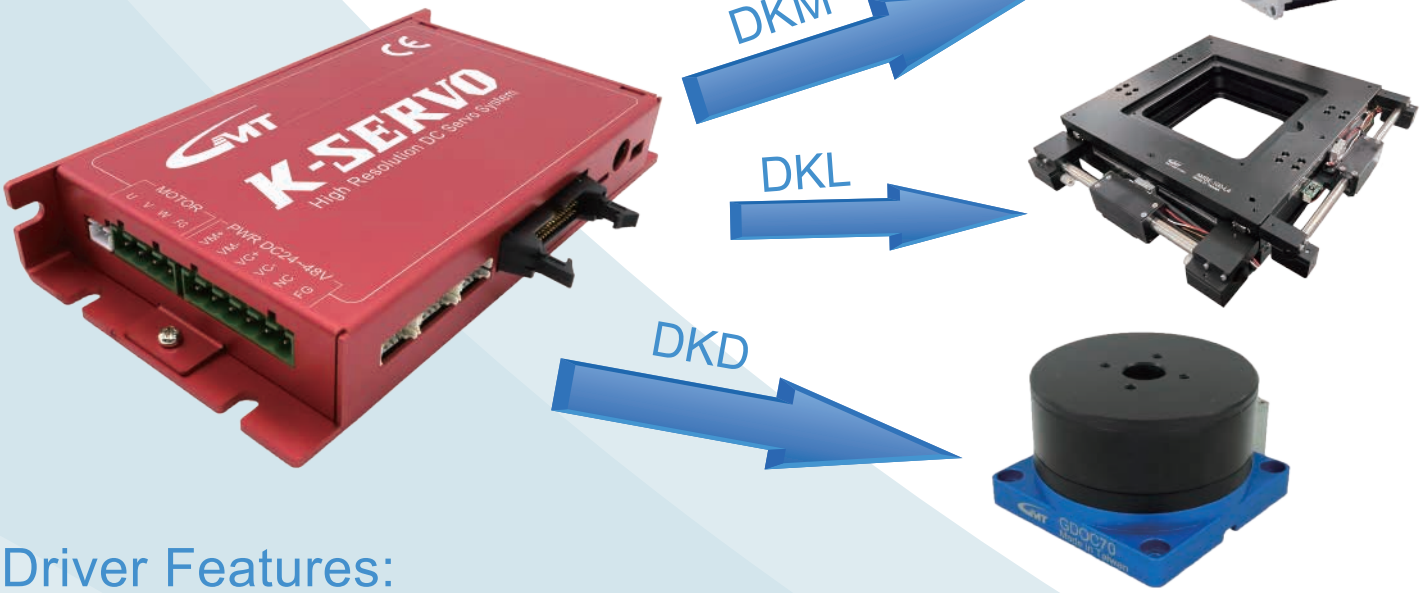
Servo Driver - DC series

K-SERVO

Servo Driver



Driver Features:

◎ Power supply between 24~48V of low-voltage DC electricity input.
◎ Compact design：driver volume minimized to save space for panel wiring.
◎ Diverse control modes :
- Pulse mode：the high-speed pulse and open collector interface takes care of compatibility with both new and old systems
- Communication control mode：the ModBus RTU protocol enables precision positioning by connecting all 16 axes in series.
- PIO mode：the built-in 128-point procedural table allows sequential control for users who are unable to write a program.

◎ Absolute accuracy correction Error Map function： combined with optical ruler input and laser interferometer calibration to improve absolute positioning accuracy of the slide.
◎ 2 DOF systems：enhances following response and interference resistance.
◎ 4 sets of low-frequency Vibration and 4 sets of notch filters：improve the high-frequency noise and vibration of the mechanism once set.

DKM：Servo motor Driver

Equipped with a 23-bit absolute encoder AC servo motor for high resolution and high positioning accuracy.

DKL：Linear Motor Driver

Equipped with a linear motor and an external optical encoder (ABZ) to meet closed-loop control requirements.

DKD：DD Motor Driver

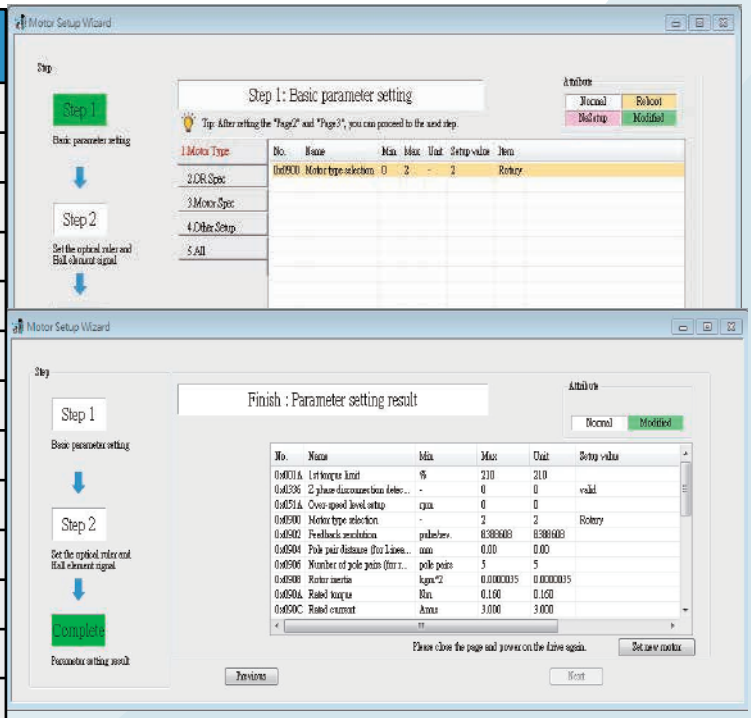
Equipped with a direct drive motor with a 19-bit multi-turn absolute encoder that can control multi-turn operation and position control.

＊For related information, you can refer to the official website where you can download the operating manual for each of the drivers.

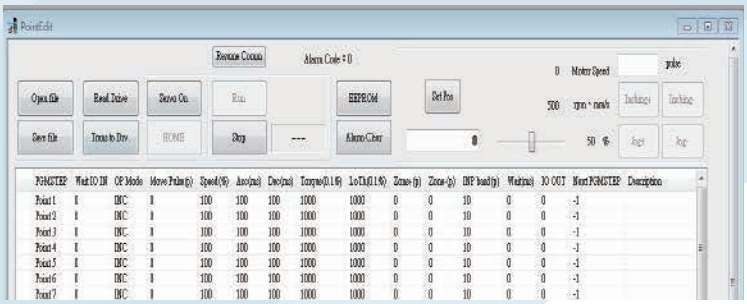
Driver Specifications Table

Item		Description
Power	Main loop	24~48VDC ± 15%
	Rated current	6A
	Maximum current	20A
	I/OPower voltage	24VDC ± 15%
Environment	Temperature	Operating: 0~55°C; storage: -20 ~ +80°C
	Humidity	Operating/storage: below 90%RH
	Height	Below 1000 m
	Vibration	Below 5.88m/s², 10~60Hz
Control method		MOSFET PWM sine wave driven
Encoder feedback		The RS485 half-duplex supports
Optical Linear Encoder		QEP incremental encoder
Control signal	Input	13 inputs
	Output	13 outputs
	Special output	Brake relief output
Analog signal	Input	-
Pulse signal	Input	Open Collector, High Speed Photocoupler
	Output	Motor Phase Z open collector output
Communication function	USB/RS485	Parameter Adjust mini USB interface 1:16 RS485 control interface
Control mode		(1) Position control (Pulse) (2) PIO procedural control

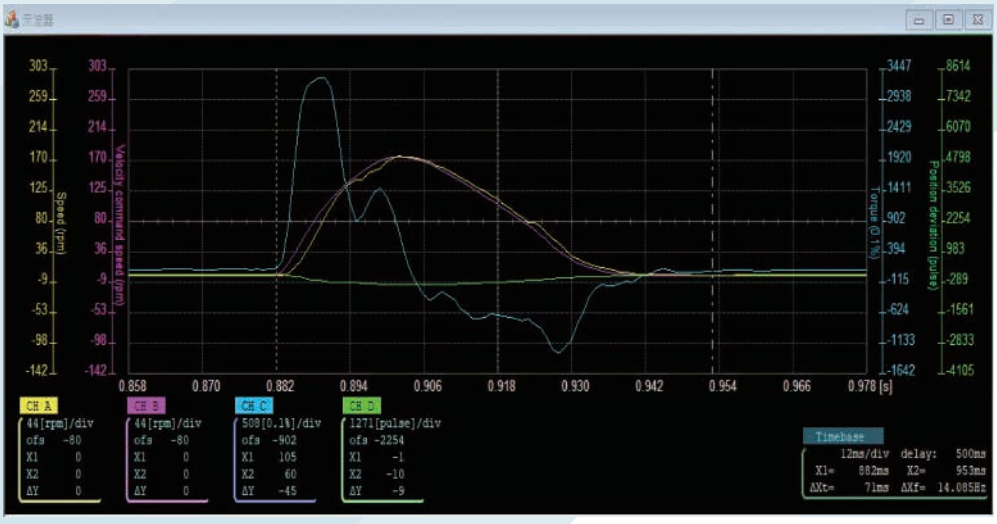
Motor Wizard



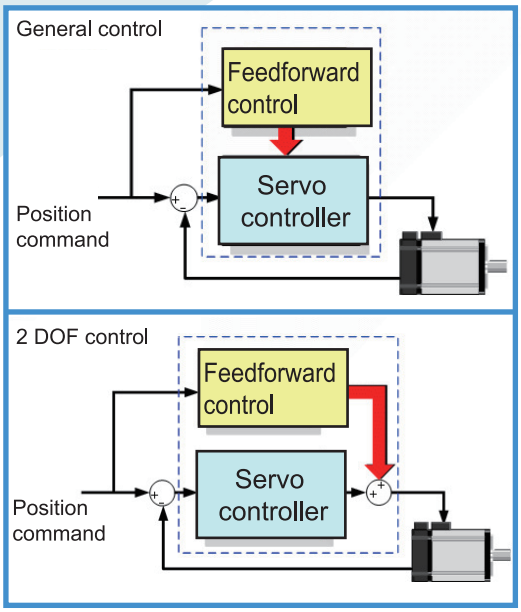
PIOmode



Built-in oscilloscope for parameter adjustment



2 DOF control



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