

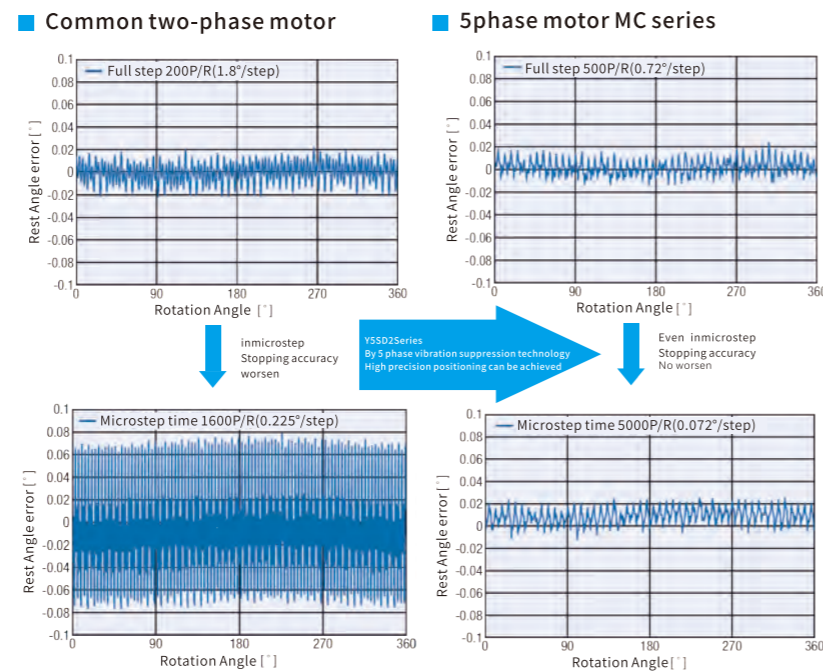
5 phase step drive system

Y5 series stepper drive
MC series stepper motor

High precision Low vibration

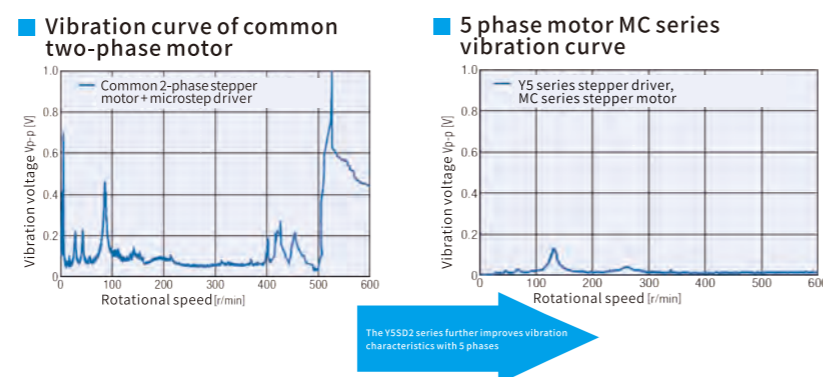
High precision

The 5-phase stepper MC series has a step Angle of 0.72° (0.36° for the high-resolution type) and a stop accuracy of 0.05, so it can achieve high precision positioning. In addition, the static Angle error when controlled by the micro-step drive can be achieved and the whole step drive is basically not change to high precision.

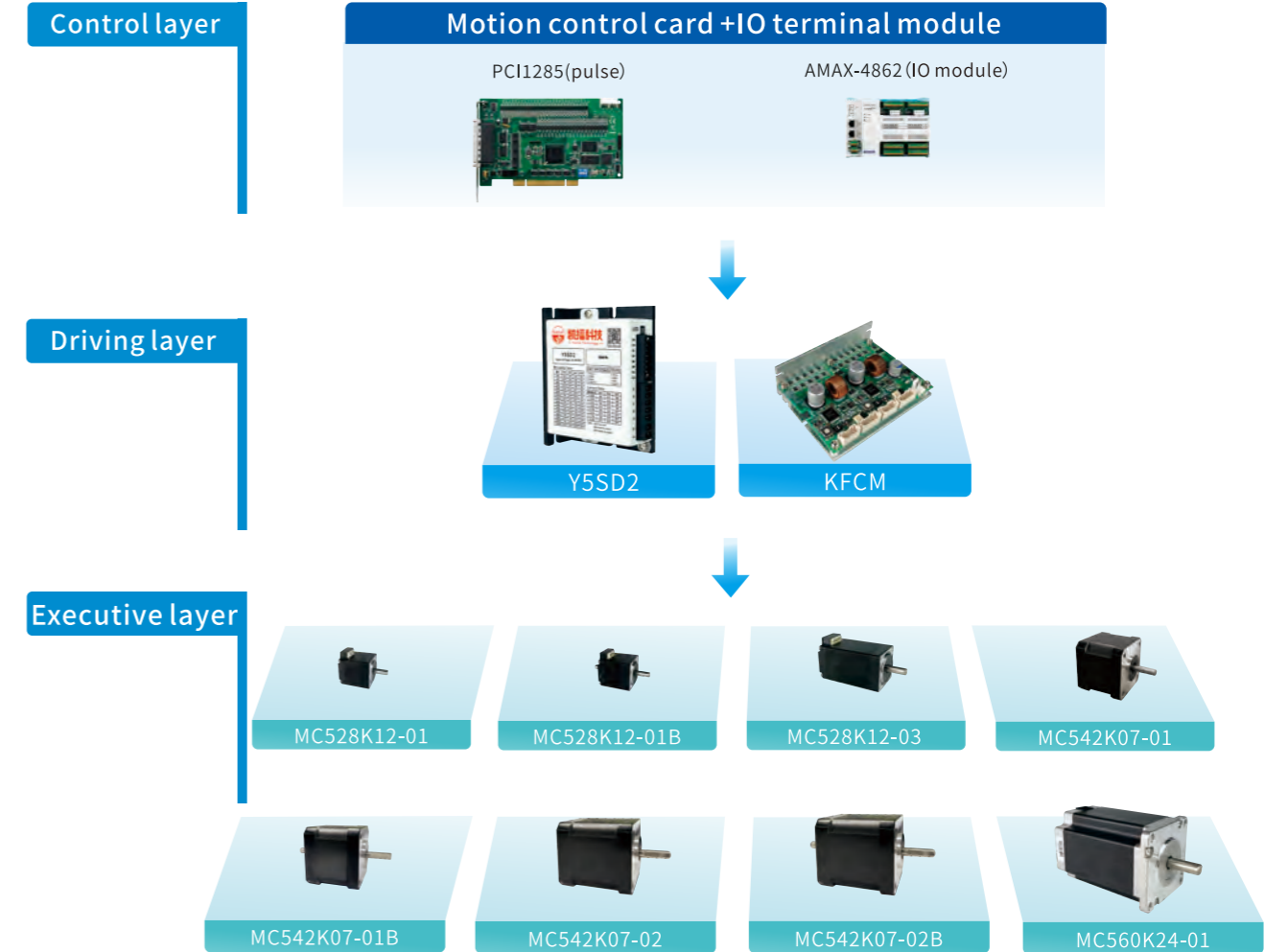


Low vibration

With a smaller basic step Angle of 0.72° (0.36° for the high-resolution 2-phase stepper motor with a basic step Angle of 1.8°), low vibration and low noise are achieved. In addition, through the control of micro-step drive driver, lower vibration and low noise can be achieved.



PRODUCT FAMILY TOPOLOGY



INDUSTRY APPLICATIONS



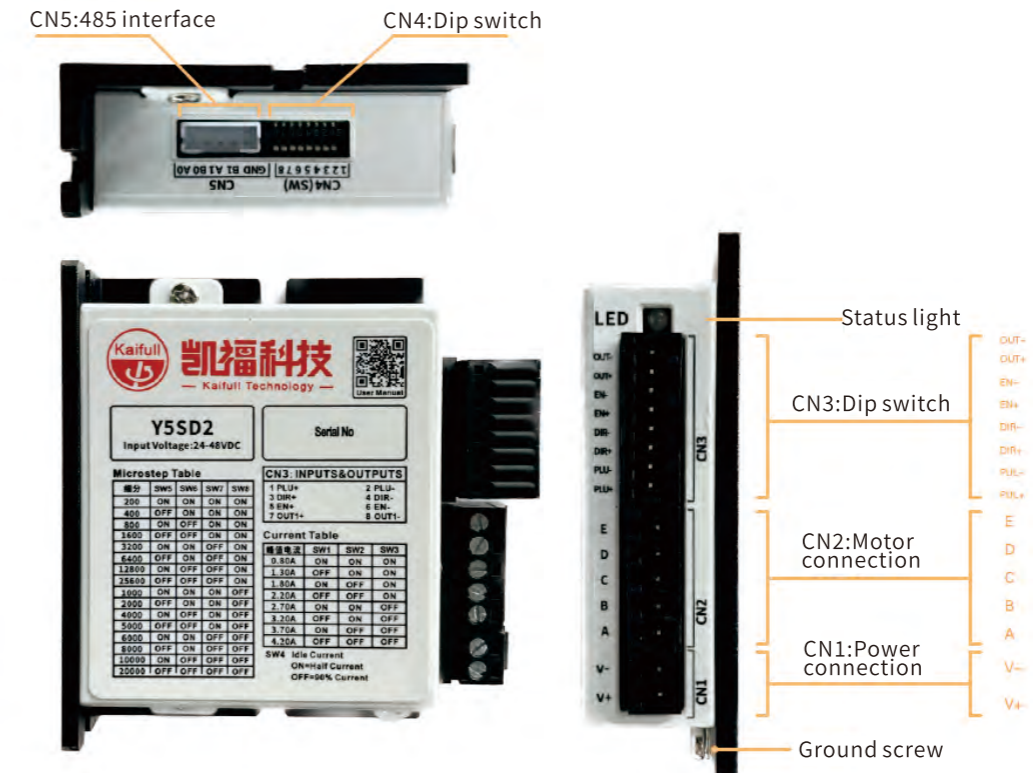
MODEL AND SPECIFICATION PARAMETERS

Motor model	Y5SD2
Mounting dimension	73 × 56 × 21 mm
Input power supply	24 ~ 48V DC
Current output	0.8 ~ 4.2A (peak)
Adaptive motor	Five phase stepper motor
Control mode	Pulse + direction, double pulse, speed mode
Communication interface	RS485 serial port
Input signal	Pulse, direction, enable signal: differential; Optocoupler isolation; The common end supports 5 to 24VDC. Maximum frequency 250Khz
Output signal	Alarm output: open collector output; Optocoupler isolation; Maximum output 100mA@30V
Insulation withstand voltage	Grounding AC1.5KV, can withstand voltage for 1 minute
Recommended use environment	Temperature :0~+55 ° C Humidity :0~90%RH below
Class of protection	IP20

TYPICAL CONFIGURATION EXAMPLES

Product model	Maximum torque	Rotor moment of inertia	Rated current	Basic step Angle	Adapter driver
Single axis MC528K12-01	0.05N.m	9g.cm ²	1.2A	0.72°	KFD-S0514-1L/2L/3L/Y5SD2
Dual Axis MC528K12-01B	0.05N.m	9g.cm ²	1.2A	0.72°	KFD-S0514-1L/2L/3L/Y5SD2
Single axis MC528K12-03	0.091N.m	18g.cm ²	1.2A	0.72°	KFD-S0514-1L/2L/3L/Y5SD2
Single axis MC542K07-01	15N.cm	54g.cm ²	0.75A	0.72°	KFD-S0514-1L/2L/3L
Dual Axis MC542K07-01B	15N.cm	54g.cm ²	0.75A	0.72°	KFD-S0514-1L/2L/3L
Single axis MC542K07-02	24N.cm	68g.cm ²	0.75A	0.72°	KFD-S0514-1L/2L/3L
Dual Axis MC542K07-02B	24N.cm	68g.cm ²	0.75A	0.72°	KFD-S0514-1L/2L/3L
Single axis MC560K24-01	1.6N.m	580g.cm ²	2.4A	0.72°	Y5SD2

INTERFACE DESCRIPTION



NAMING RULES

