

## 2 Phases □20 TN mini slide



### Features :

- ◎ Miniaturization and space saving
- ◎ Use wear-resistant material sliders to improve product life
- ◎ Lightweight, improving overall system responsiveness
- ◎ Significantly reduce parts count and working time
- ◎ Resolution from 0.045mm/step to 0.0004mm/step, Maximum load 5N

### Motor name view : TN1 P09 - 05 AO6L

1 : TN1 : 2-Phase 20-frame stepper motor mini slide series

2 : P09 : 9mm lead, 6mm diameter square screw

3 : 05 : Stroke 50mm

4 : A : Single axis B : Double shaft , AO6L: Attached encoder type, resolution 800P/R

### Precision Linear Stepper Motor Specifications: ※Travel per step is a value calculated based on the drive resolution

Model	Screw dia	Screw lead	Travel per step (mm)	Journey	Horizontal load	Vertical load	Fastest speed
			<small>The number of divisions per revolution is set to 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 pulse/rev</small>				
TN1P09-05A	6.0mm	9.0mm	<small>Moving distance = screw lead ÷ division number × pulse number mm = mm/rev ÷ pulse/rev × pulse</small>	50mm	500gf	150gf	100 mm/sec

Using square tooth screw, repeatability accuracy :±0.05mm

For the allowable static torque of the slider, please refer to the description in the dimension diagram of the catalog.

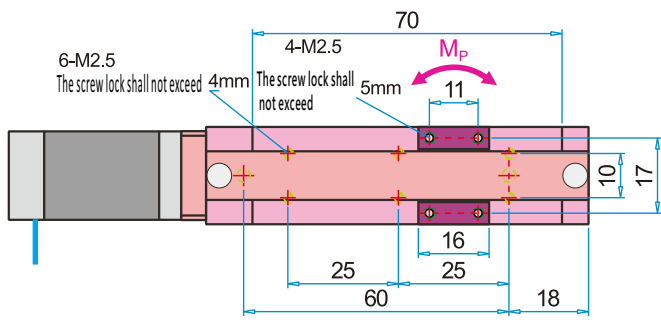
### Microstep stepping motor driver specifications:

Drive model	DS22HMD
Input power	DC24V(3A and above) <small>Actual depends on the batch motor</small>
Drive current	0.5 ~ 2A/phase
Step angle setting	Fullstep/Halfstep/Microstep(800/1600/3200 / 6400/12800/25600 step/rev)
Signal input/output meth	◇ Optocoupler input interface ◇ Open collector output interface
Signal input	◇ CW pulse input ◇ CCW pulse input ◇ Hold off/Excitation release input
Signal output	◇ ALARM OUT ◇ TIMING OUT
Basic skills	* Self-test function * Pulse input mode (1P/2P) switching * Step angle switching function * Automatic current drop (ACD) function
Protection mechanism	* Power reverse connection protection * Over temperature protection * Motor wire break protection * Overload protection * Signal terminal overvoltage protection * Overcurrent protection

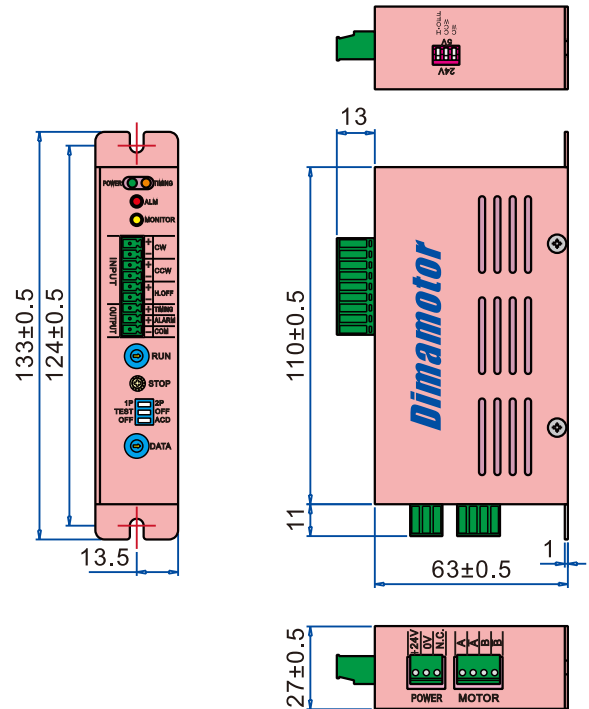
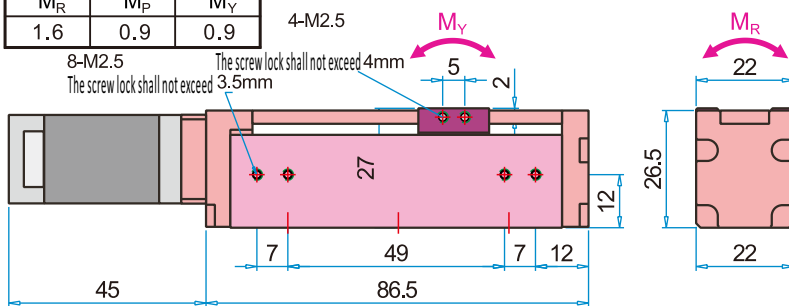
# Dimamotor

An efficient drive comes from an efficient motor

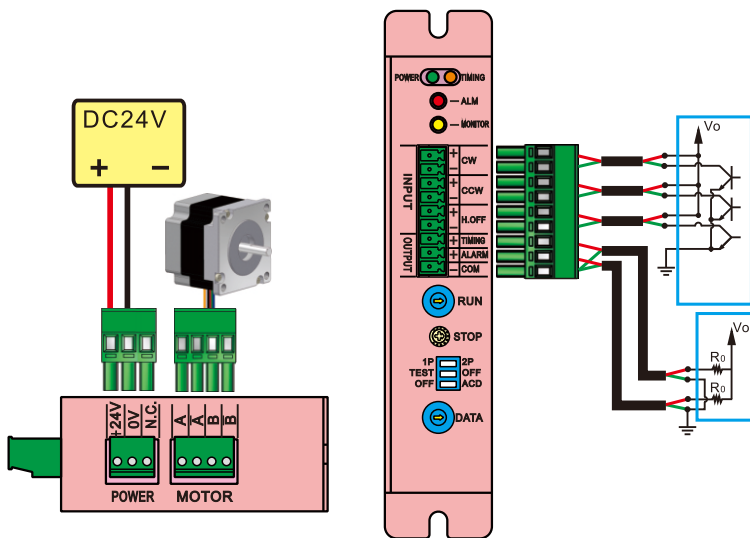
## Dimensions (unit: mm)



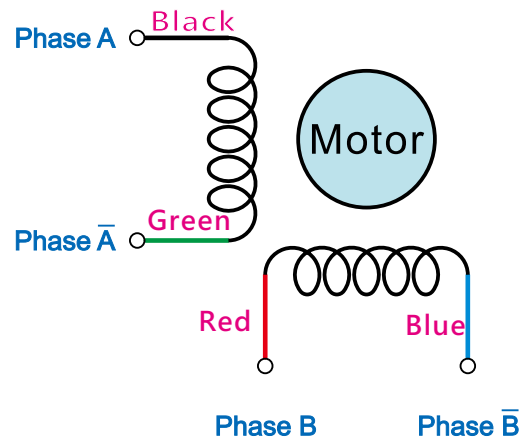
Allowable static torque of slider (N.m)		
$M_R$	$M_P$	$M_Y$
1.6	0.9	0.9



## System Wiring Diagram



## Internal wiring diagram of stepper motor



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