

# **HB** Jupiter Servo Drives



- Designed with leading Dual 32 bit DSP chip and manufactured by adopting high quality component
- High bandwidth and Full digital regulation.
- Fast response and high precision
- Excellent Performance and Features
- Multi-Functionality
- Advanced Operation Software and Monitor Tool
- Wide range from rated current 06A to ultimate 100A.

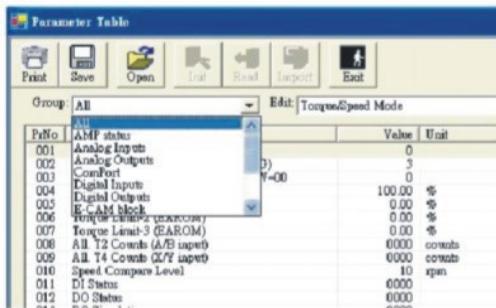
# Specifications

Model Number		JMD-STD-06A	JMD-STD-09A	JMD-STD-15A
Output Current (Amp)		6A/18A	9A/27A	15A/45A
Power Input		Single/Three-Phase 220V AC, 50/60Hz		
Power output		Three-Phase 0 ~ Input Power Voltage		
Sinusoidal PWM		IGBT Sinusoidal Pulse-Width-Modulation (10Khz)		
Encoder type		Incremental		
Control mode		Torque, Speed, Position control modes & Embedded Motion Profiles		
Modes :	P-command Mode	1. Pulse input : A/B phase, CW/CCW or Clock/Direction 2. Bit rate : ~ 1M bps 3. Gear ratio : 50000 ~ 1/50000		
	SP2P mode	1. 16 independent position/Length 2. 4 selectable velocity profile 3. Mixed Absolute/Incremental mode		
	Speed Control mode	1. Control Range 30000 : 1 2. 8 Preset Speed, by 3-bits DIX 3. 4 Torque Limit setting, by 2-bits DIX		
	Torque Control mode	Settable Speed Droop range		
Protection		Over-Potential, Over-Current, Over-Load, Over-Speed, Encoder-Fault		
Encoder Simulated Output		1/N (N=1,2,4,8,16,32), or Fixed Frequency : 250K, 125K, 62.5K		
Control Power		External +24V DC power supply		
Digital Input DI (x)		8 Standard bi-directional photo-isolated inputs (DI1 ~ D18) X/Y Clock input Mark & Cut Capture inputs		
Digital Outputs DO (x)		Bi-directional Photo-isolated outputs (DO1 ~ DO4)		
Analog Input		12bits resolution A/D inputs : AI1 & AI2 2.5Khz sampling rate		
Analog Output		12bits resolution D/A outputs : AO1 & AO2 2.5Khz refreshing rate		
Communication		RS-232, RS-422, RS-485, Modbus (~115200bps), CAN Open (Option)		
Environment	Temperature	0 ~ 50°C		
	Humidity	~ 85% RH		
	Vibration	~ 0.5G		
Ventilation		Forced cooling		

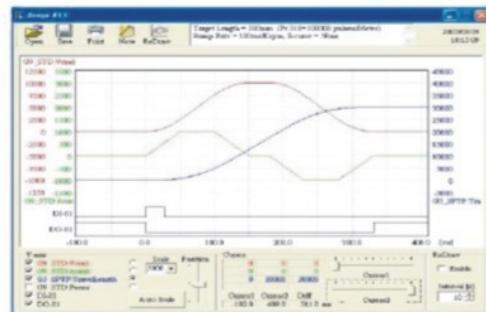
## Main Features

- ◎ · Dual 32bit DSP design, Embedded Motion controller with Servo Drive
- ◎ · Multi-Functionality : Torque mode, Speed mode, Position mode, Smart Point to Point
- ◎ · 100us sampling rate & calculation loop
- ◎ · 1 Mbit/sec, High speed pulse command input (A/B phase, CW/CCW, CK/DIR)
- ◎ · 2 fast digital inputs for High-Speed signal capture
- ◎ · 8 multi-functional bi-directional digital inputs
- ◎ · Simulation encoder output ( $N=1, 1/2, 1/4, \dots, 1/64$ ), or fixed frequency output  
250K, 125K and 62.5K
- ◎ · 4 multi-functional digital outputs (both PNP/NPN compatible)
- ◎ · Analog input 2 channels, 12bit resolution
- ◎ · Analog output 2 channels, 12bit resolution
- ◎ · RS485/RS422/RS232, Modbus RTU protocol, 9600 ~ 115200bps,  
CAN Open (OPTIONAL)
- ◎ · Direct Metric number conversion system, high resolution setting 0 ~  
1,000,000.000(mm)
- ◎ · SP2P (Smart Point to Point) mode, 16 Length/Position data selectable
- ◎ · All sinusoidal acceleration and deceleration velocity profile
- ◎ · Special E-CAM Switch, Shift-Register, and auxiliary Timer, Counter
- ◎ · Advanced Commissioning/Monitoring software : What you see, what you get !
- ◎ · Optional Function :
  - Rotary CUT
  - Flying CUT
  - Print mark registration

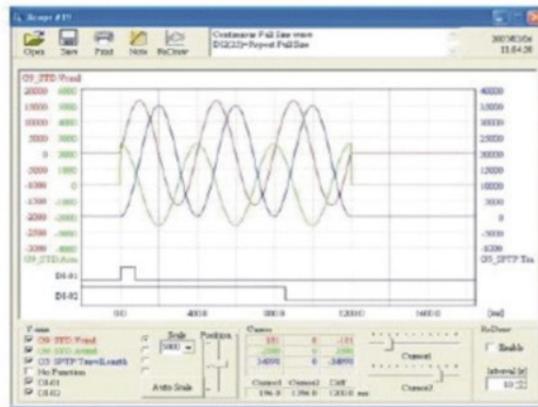
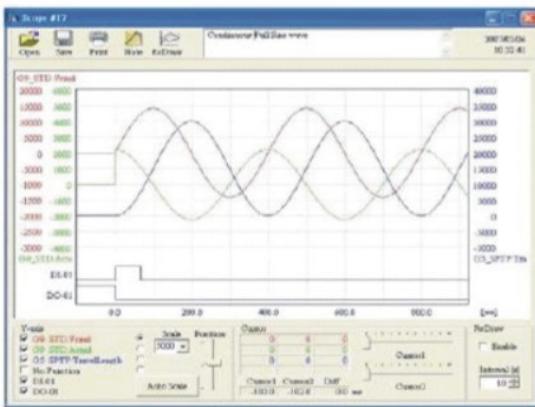
◎Friendly "Servo Win" commissioning software is capable for easy read/write parameters, monitoring system and may keep the application project in file.



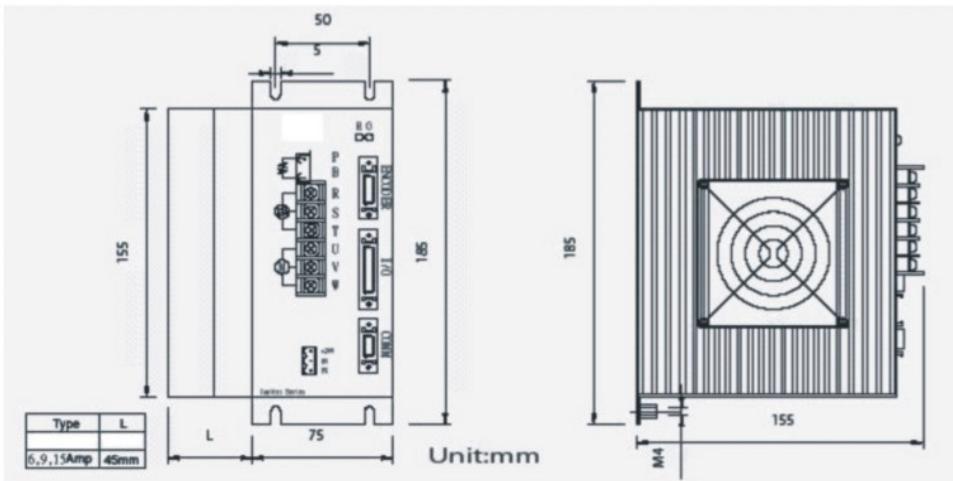
◎Standard S-Curve trapezoidal motion Profile provide smooth Auto point to point Motion control.



◎Auxiliary Soft-Scope Tool enable user to observe system performance whenever in need.



## Mechanical Dimension Size



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