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|------------------|-------------------------------------------------------------------------------|
| Title            | Introduction to Standard Type for General Purpose Applications ASDA-B2 Series |
| Date             | January, 2017                                                                 |
| Related Products | ASDA-Soft configuration software (tuning software), ECMA Series Servo Motors  |
| Keywords         | Auto notch filter, high resolution encoder, built-in regenerative resistor    |

## Introduction

Delta's ASDA-B2 Series satisfies the requirements for general-purpose machine control applications and has a wide power rating that ranges from 0.1kW to 3kW. It features built-in motion control functions for general purpose applications and provides convenience for setting assembly, wiring, and operations. In switching from other brands to the ASDA-B2, Delta's complete product lineup makes replacement simple and saves the cost of mechatronics integration. This Series not only fulfills general equipment requirements but is also ideal for machinery applications including transporting and conveying equipment, electric discharge machines (EDM), as well as for diverse industries using CNC engraving and milling machines, food machinery, CNC machine tools and more.

## ASDA-M Series



**Power Range:** 0.1kW~3kW

**Input Voltage:** 200 Vac ~ 230 Vac,  
1-phase / 3-phase, or 3-phase

## Features

### ➤ High Response and High Precision Positioning Control

Delta's servo drive ASDA-B2 Series with servo motor ECMA Series features a 17-bit (160,000 p / rev) high resolution incremental encoder to ensure precise positioning at low speed and reduce the

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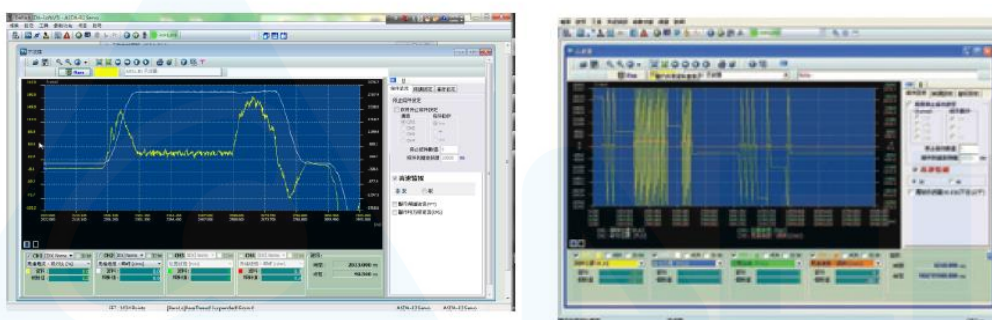
cogging torque to improve the motor's precision. The Series provides up to 550 Hz frequency response and settling time is below 1ms for higher speed and outstanding performance.

In addition, the ASDA-B2 supports differential commands (up to 4Mpps) and analogue voltage commands with precise positioning to control servo motors. The Series includes built-in Position, Speed and Torque modes for customer applications. Three notch filters are also provided to efficiently suppress mechanical resonance and make the system operate more smoothly.

## ➤ Easy-to-Operate, Cost-Saving

ASDA-Soft configuration software provides auto-tuning functions and offers information such as parameter list, and scope data to provide equipment tuning and evaluation for customers. The digital keypad of the ASDA-B2 Series is also ideal for setting parameters, monitoring servo drives and motors' operating status. In addition, the Series features built-in regenerative resistors (400 W and above models) for simple wiring and reduced cost.

## ASDA- Soft Tuning Interface: Optimize Parameter Setting, Quick Tuning Process



## ASDA- A2 Digital Keypad & Built-in Regenerative Resistor: Easy-to-Use, Minimizes Space



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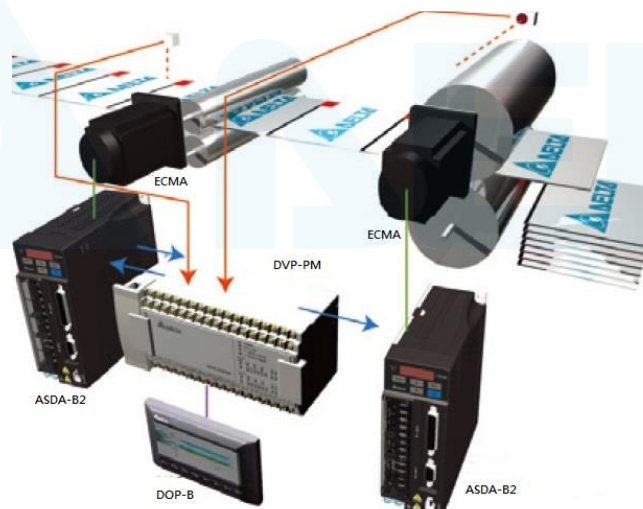
## Successful Application: Cutting Machines

### ➤ System Architecture

1. Apply Delta's DVP Series as host controller to control 2 ASDA-B2 servo systems with fast and precise cutting to achieve material feeding and cutting.
2. The DVP Series is equipped with scheduling and can enhance cutting machine efficiency and precision.
3. Match with the human machine interface DOP-B Series with its touchscreen to allow customers to remotely control operating equipment and view the direct operating data display.

### ➤ Benefits

- **Simple Machine Setup Procedure:** Using ASDA-Soft tuning software, customers can quickly complete tuning with optimized parameter settings via many built-in functions.
- **Improve Production Efficiency:** Employing 2 ASDA-B2 Series effectively controls the speed and precision for material feeding and cutting, reducing machine idle time and improving machine production efficiency.



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