



**Industry Notification - Machine Tool Industry**

# **Delta Servo Press Slider Constant Speed Operation Solution**

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# Servo Press Applications

## Introduction

The press is mainly used for sheet metal machining. It features molds for machining of blanks, punching parts, forming parts, stretch forming parts, trimming parts, fine blanking parts, sizing parts, rivet parts as well as extrusion parts for a wide range of areas.

Comparing with conventional mechanical presses, in which sliders move based on standard sine curve, the servo press enables constant speed operation of the slider, allowing it to also act as an oil hydraulic press and making it versatile.

## Application

This solution can be widely applied in automotive and many other industries for parts machining, product bending, stretching, press fitting, imprinting and forming, etc.

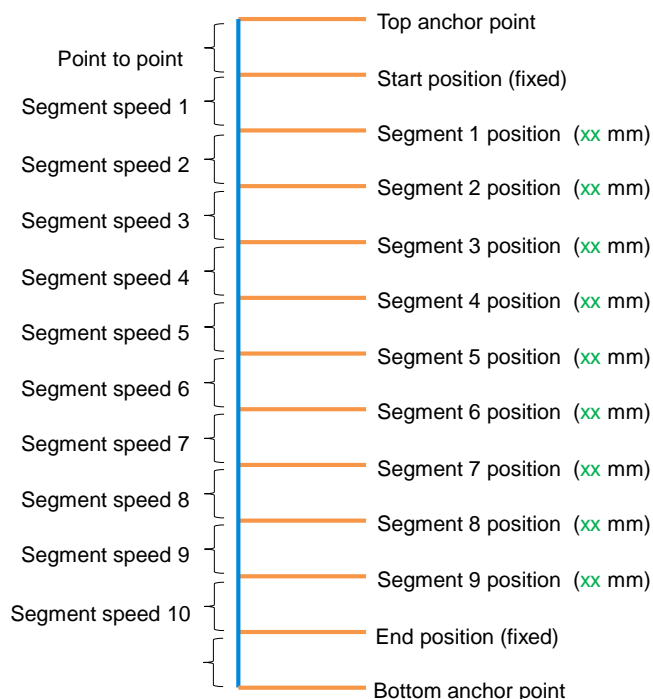


**Servo Press**

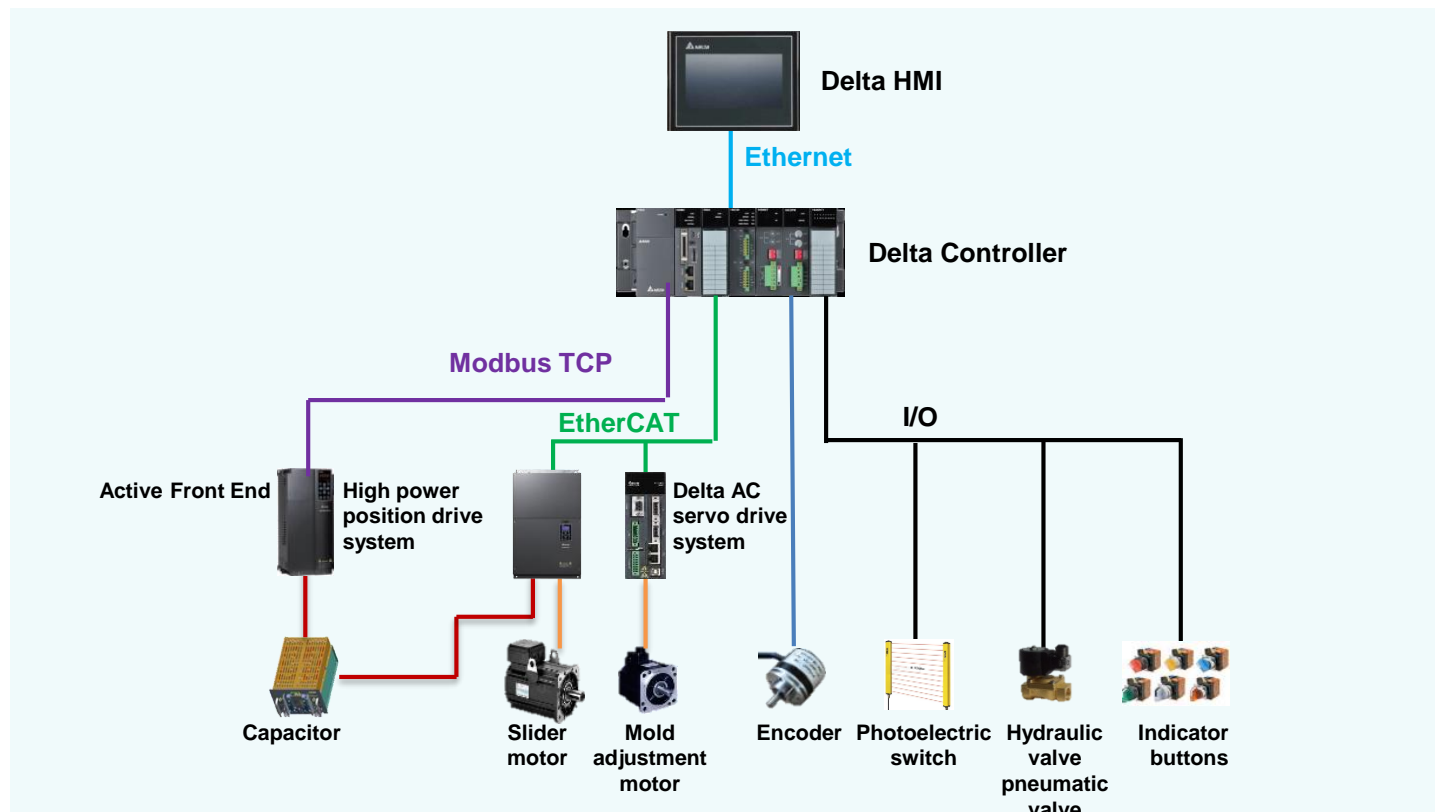
## Process

The servo press is driven by the servo motor directly. It converts the power generated by the motor into the linear motion of the slider via the gear and crank connecting rod, which is the main development trend of pressing industry.

The constant speed range allows maximum 10 speeds to be set, while the speed segments can be set as required, with each segment ranging from 0.5 to 50mm/s. The holding time is subject to the end point of the last set segment.



## Solution Architecture



## Features and Advantages

### Cutting-Edge Control Technology

- Offers advanced approach to plan slider pressing profile with E-Cam.

### Energy Saving

- High power position drive system offers high overload capacity and large starting torque, combined with Active Front End for higher power factor and reduced harmonic distortion, thus saving energy.

### Stand Out With Multifunction

- Integrates slider constant speed operation function to enable oil hydraulic press process, making it versatile.

### Stable Control Performance

- Delta one-stop solution for stable performance, easy commissioning and maintenance and excellent service.