AC SERVO PRESS

1. Compact and Tough Tool Design

- Compact Design
  The design combines mechanical strength with the compactness of a hydraulic cylinder.
  Space-saving design and minimum mounting pitch allow for multi-axis press fitting.

- Intelligent Functionality
  The press is equipped with a CPU model to store such as as model numbers and load values in self-memory, and enables a variety of application systems.

- Maintenance Support
  The press tool performs self-control of operation counts and travel distances to support systematic maintenance.

2. High Speed Processing Network, Reliable Traceability

- Ethernet Capability
  Compared to the RS-485, this series provides unparalleled high-speed signal functionality. Even large volumes of graphical data can be transmitted nearly instantaneously, resulting in compact cycle times.

- Improved Traceability
  Installation of optional circuit boards provides compatibility with CIOC, DeviceNet, Profinet and other applications.
  Supporting PLC memory storage of numerical results in addition to basic application operations.

- Production of a Wide Variety of Product Models
  Major parameters within programs can be changed through a PLC.
  Creation of a single program allows for handling variations between multiple product models.

3. Simple Programming, Perfect Analysis Function

- New Programming Methods for High Level of Freedom
  A specialized language for the servo press has been developed that permits description of complicated motions acquired in robotic control systems.

- Easy Program Creation
  Automatic program creation function included as standard on PC applications allows for complete creation of general-purpose programs with only a requisite minimum of settings.

- Variety of Evaluation Methods
  Load, stroke and speed values are evaluated according to final and peak points, as well as a zone of your discretion.
  A zone evaluation function has also been newly adopted.

What is zone evaluation?
- Zone evaluation allows for continuous evaluation in the stroke-load area.
- The evaluation area created by a tolerance range added to the actual measured curve.
- The unit is immediately stopped if outside of the zone.
- A maximum of 32 zones can be used.
- Switching between numerous zones within a single program is also possible.

Sample Screen: Auto Program Generation

Special Design Servo Presses

With a lot of machine building expertise, Coretec will help to realize your needs. Here are some examples of our Special Design Servo Presses.

- High-Load Model
  Example 1: MS100-100B
  Approaching Speed: 90mm/s
  Holds 70kN Load for 15 minutes.

  Example 2: MS100-350B
  Approaching Speed: 50mm/s
  Enabled Repeat operation under 80kN Load.

  Example 3: MS30M-200B
  Approaching Speed: 125mm/s
  Realized repeat operation under 30kN

- High-Speed Model
  Under development of MS100(200mm/s)/ MS200(160mm/s) models.

- Designed for Clean room use
  Feel free to consult us for special environment use.

- Tandem use
  300kN Use
  Realized Maximum Load with Two Shafts

- Multiple Shaft, Fully synchronized
  Multiple use of Servo Presses, enables uniform operation for larger size parts.

- Custom Press Stand
  Equipped with Frames, Power unit, Control panel, etc.

- Multi Press
  Start your work by just connecting the power cable.
  Program setting is not necessary. Suitable for simple use.

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Specifications, dimensions and design are subject to design changes without prior notice.
**CS05/10/20/30/50**

- **5 to 50 kN**

- **Main Applications**
  - Bearing press fitting
  - Valve seat press fitting
  - Valve guide press fitting
  - Bushing press fitting
  - Flanging/straightening

- **Specifications**
  - **Max. Force** *(kN)*: 3, 7, 14, 21, 40
  - **Max. Power Capacity (kVA)**: 0.75, 0.75, 1.85, 2.5, 3.5
  - **Ambient Conditions**: 0 to 40 °C, 10 to 90% relative humidity
  - **Max. Speed (mm/s)**: 300, 180, 270, 240, 150
  - **Semi-Standard Stroke (mm)**: 150, 150, 150/400, 400, 400
  - **Model No.**: CS05/10/20/30/50

**MS100/200**

- **100/200 kN** (successor of BS model)

- **Main Applications**
  - Valve seat press fitting
  - Valve guide press fitting
  - Bushing press fitting
  - Flanging/straightening

- **Specifications**
  - **Max. Force** *(kN)*: 3, 7, 14, 21, 40
  - **Max. Power Capacity (kVA)**: 0.75, 0.75, 1.85, 2.5, 3.5
  - **Ambient Conditions**: 0 to 40 °C, 10 to 90% relative humidity
  - **Max. Speed (mm/s)**: 300, 180, 270, 240, 150
  - **Semi-Standard Stroke (mm)**: 150, 150, 150/400, 400, 400
  - **Model No.**: MS02-100B

**MS02-100B**

- **2 kN**

- **Main Applications**
  - Metal/wood thinning and perforation
  - Plastic/film forming and deposition
  - Food packaging
  - Mold and lead forming for electronic parts

- **Specifications**
  - **Max. Force** *(kN)*: 2
  - **Max. Power Capacity (kVA)**: 0.15
  - **Ambient Conditions**: 15 to 30 °C, 20% to 80% relative humidity
  - **Max. Speed (mm/s)**: 500

**System Configuration**

- **CPS Controller** (for MS02-100B)
  - Specification: MS02-100B
  - Model: CPS-SP-75
  - Motor Serial: 100VAC
  - Servo Amp: 200VAC

**Tool Dimensions**

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**How to Order**

- **CPS Controller** (for MS02-100B)
  - CPS-SP Application
  - BS Controller
  - BS Controller (for MS02-100B) **Note**: May require special design.

**Software**

- **Valve guide press fitting**
- **Valve seat press fitting**
- **Bearing press fitting**
- **Multi-stage press fitting**
- **Pin press fitting**
- **Riveting**

Please consult us for special design.

**Emergency Stop Button**

- (for MS model)

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- (for MS model)

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