Compact and Tough Tool Design

1. Compact Design

The design combines mechanical strength with the compactness of a hydraulic cylinder.

Space-saving design and minimum mounting pitches allow for multi-axis press fitting.

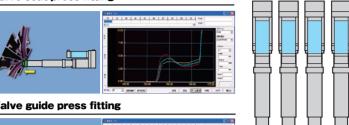
2. Intelligent Functionality

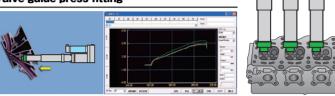
The press tool is equipped with a CPU enabling it to store items such as model numbers and load values in a self-memory, and thereby eliminating controller mismatch errors.

3. Maintenance Support

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

Valve seat press fitting





High Speed Processing Network, Reliable Traceability

1. Ethernet Capability

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

2. Improved Traceability

Installation of optional circuit boards provides compatibility with CC-Link, DeviceNet, Profibus and other applications. Supporting PLC memory storage of numerical results in addition to basic input/output operations.

3. 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.

Program Rewrite/Reference Table

- · Program can be easily changed externally by using a table reference format for parameters such as load, stroke and speed,
- Rewriting of limit value can be performed in the same manner
- This function is easily enabled by the use of optional circuit boards.

Simple Programming, Perfect Analysis Function

1. New Programming Methods for High Level of Freedom

A specialized language for the servo press has been developed that permits description of complicated motions equivalent to robotic control systems.

2. Easy Program Creation

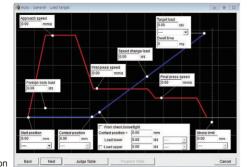
Automatic program creation function included as standard on PC applications allowing for complete creation of general-purpose programs with only a requisite minimum of settings.

3. Variety of Evaluation Methods

Load, stroke and load rate values are evaluated

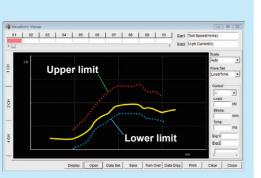
according to final and peak points, as well as points at your discretion

A zone evaluation function has also been newly adopted.



What is zone evaluation?

- · Zone evaluation allows for continuous evaluation in the stroke-load area.
- "Zone" refers to 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.



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Specifications, dimensions and shape are subject to change without prior notification

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 opearation 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.





AC SERVO PRESS



CS30-350B

MS200-100B

MAIN APPLICATIONS

Bearing press fitting	Riveting
Valve seat press fitting	Pin press fitting
Valve guide press fitting	Multi-stage press fitting
Bushing press fitting	Flattening/Straightening
Plug press fitting	

SPECIFICATIONS

Model No.	CS05	CS10	CS20	CS30	CS50
Max. Force (kN)	5	10	20	30	50
Applicable Force *1 (kN)	3	7	14	21	40
Stroke (mm)	100/250		100/200/350		
Semi Standard Stroke (mm)	150	150	150/400	400	400
Max. Speed (mm/s)	300	180	270	240	150
Controller	CPS-SP-75**				
Load Cell Accuracy	±1.5% @Load cell FS				
Positional Repeatability	±0.01mm (under identical load)				
Ambient Conditions	0 to 45°C/85% or less (with no condensation)				
Max. Power Capacity (kVA)	0.75	0.75	1.85	2.5	3.5

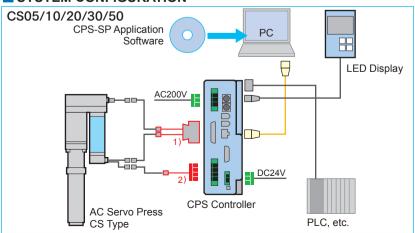
*1 This is a recommended operating force in consideration of mechanical life.

	Please consult us for special design
CS30 - 200 B ① ② ③	①Model No. ②Stroke(mm) 100/250············CS05/10 100/200/350 ······CS20/30/50 ③Holding Brake B: With Holding Brake - : Without Holding Brake

CONTROLLER



SYSTEM CONFIGURATION



1) Basic encoder / brake cable: CCSLESB-**M 2) Basic motor cable: CCKMT-**M

**Cable length: 5/10/15/20/25/30m

MAIN APPLICATIONS

Bearing press fitting	Riveting
Valve seat press fitting	Pin press fitting
Valve guide press fitting	Multi-stage press fitting
Bushing press fitting	Flattening/Straightening
Plug press fitting	

SPECIFICATIONS

Model No.	MS100	MS200	
Max. Force (kN)	100	200	
Applicable Force *1 (kN)	70	150	
Stroke (mm)	100/200/350	100/200	
Semi Standard Stroke (mm)	400	300	
Max. Speed (mm/s)	150	110	
Controller	BS-M3A-** + Amp.		
Load Cell Accuracy	±1.5% @Load cell FS		
Positional Repeatability	±0.01mm(under identical load)		
Ambient Conditions	0 to 45°C/85% or less (with no condensation)		
Max.Power Capacity (kVA)	7.5	10.0	

*1 This is a recommended operating force in consideration of mechanical life.

Please consult us for special design.

How to order

IS200 -	200	В	C	
1	2	3	4	

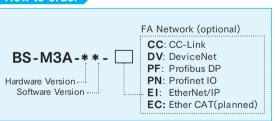
①Model No. (2)Stroke(mm) **100/200/350 ·····** MS100

B: With Holding Brake (standard)
-: Without Holding Brake Built-in Load cell C: Without Built-in Load cell (MS200 only) - · With Built-in Load cell

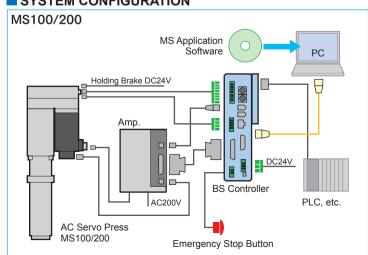
■ CONTROLLER



Dim: 51×110×198(mm) How to order



SYSTEM CONFIGURATION



MS02-100B

- 1. The smallest & Lightest Servo Press in the Industry
- 2. Integrated Load Cell. Capable of Tension & Compression
- 3. Constant Load Can Maintain Force
- 4. Max. Speed 225mm/ sec. Can Shorten Cycle Time
- 5. Auto Program Generation for Quick & Easy Programming

MAIN APPLICATIONS Plastic/film forming and deposition

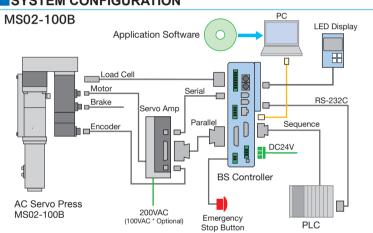
Food packaging Press-fitting of metal and plastic parts Electronic parts assembly Mold and lead forming for electronic parts Powder molding

SPECIFICATIONS

Model No.	MS02-100B
Max. Force (kN)	2
Applicable Force *1 (kN)	1.5
Stroke (mm)	100
Max. Speed (mm/s)	225
Load Cell Accuracy	±1.5% @Load cell FS
Positional Repeatability	±0.01 mm (under identical conditions)
Ambient Conditions	0 to 45°C / 85% or less (with no condensation)
Max. Power Capacity (kVA)	0.3
Weight (kg)	3.5
Applicable Force *1 (kN) Stroke (mm) Max. Speed (mm/s) Load Cell Accuracy Positional Repeatability Ambient Conditions Max. Power Capacity (kVA)	1.5 100 225 ±1.5% @Load cell FS ±0.01 mm (under identical conditions) 0 to 45°C / 85% or less (with no condensation) 0.3

*1 This is a recommended operating force in consideration of mechanical life.

SYSTEM CONFIGURATION



TOOL DIMENSIONS

