



AC SERVO PRESS

Intelligent press system for the new era



FEATURES

1 Sophisticated Press Tool

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.

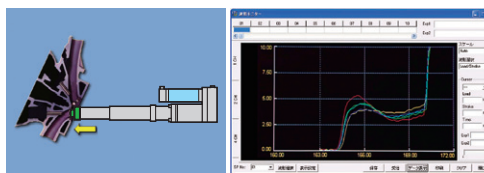
2. Intelligent Functionality

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.

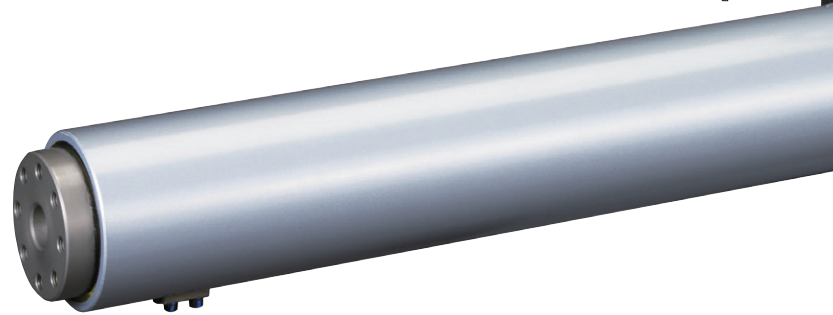
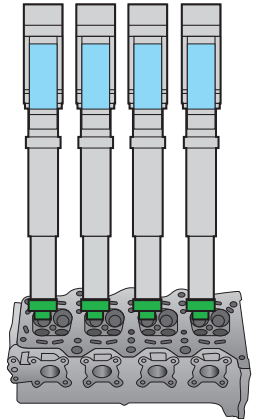
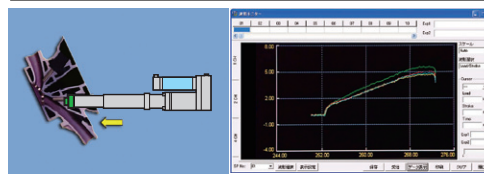
3. Maintenance Support

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

Valve seat press fitting



Valve guide press fitting



2 Wide Variety of Network Functions

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.

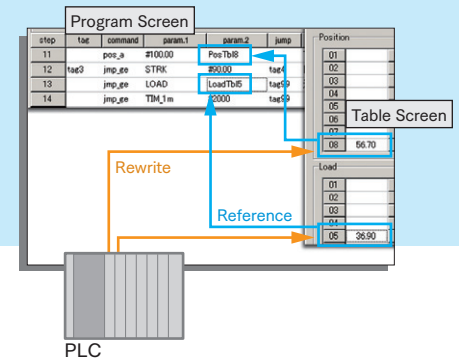
Supporting PLC memory storage of numerical results in addition to basic input/output operations.

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.



3 Flexible Capacity of Various Applications

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

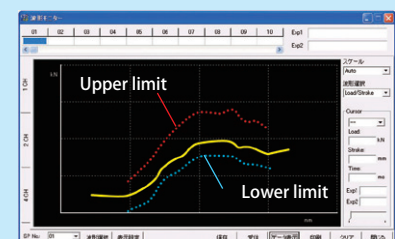
Automatic program creation function included as standard on PC applications allowing for complete creation of general-purpose programs with only a requisite minimum of settings.

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.

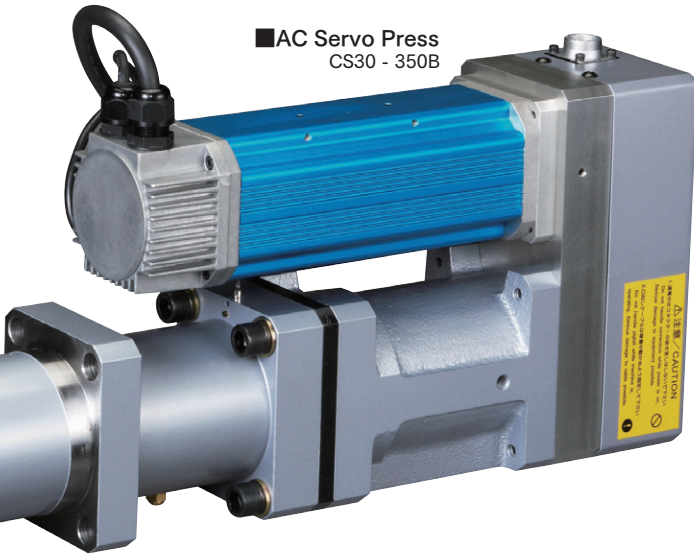




AC SERVO PRESS

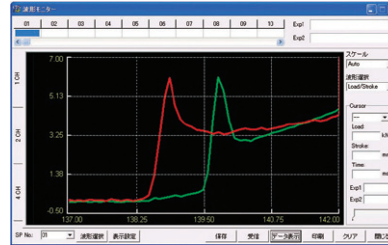
MAIN APPLICATIONS

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

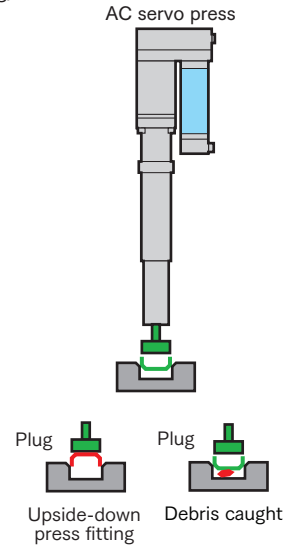
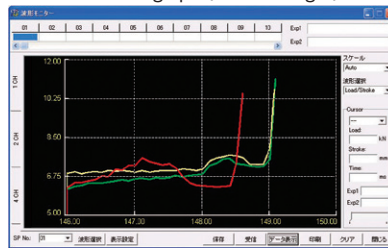


Example of Actual Use (Plug press-fit results)

Press-fit results graph (Upside-down press fitting)

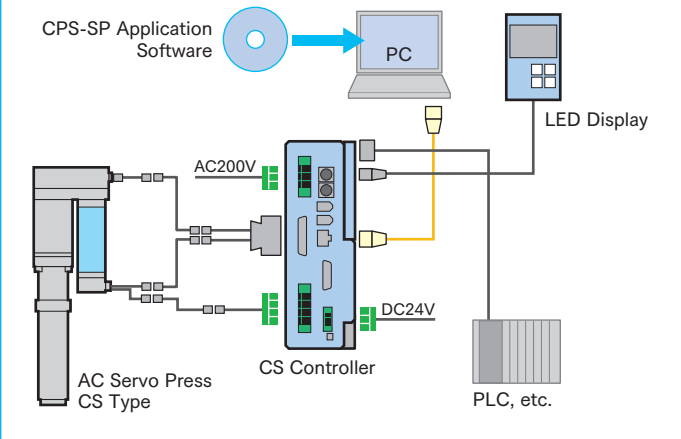


Press-fit results graph (Debris caught)

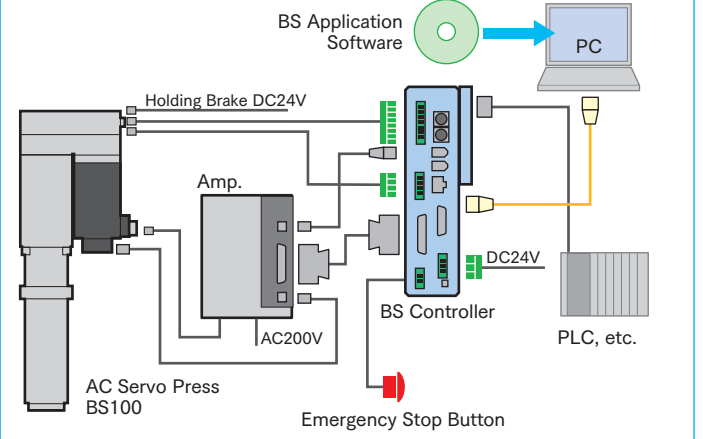


SYSTEM CONFIGURATION

CS Type



BS Type



CONTROLLERS



Monitoring Only

	CPS Controller	BS Controller	LED Display
Model No.	CPS-SP-75** - □	BS-M3A-**-□	LDS-24
Dim: mm	65×230×198	51×110×198	90×54×18

How to order

CPS - SP - 75 ** - □

Hardware Version
Software Version

FA Network (optional)

- CC: CC-Link
- DV: DeviceNet
- PF: Profibus DP
- PN: Profinet IO
- EI: EtherNet/IP

BS - M3A - ** - □

Hardware Version
Software Version



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LINEUP							
Model No.	CS05	CS10	CS20	CS30	CS50	BS100	BS200
Max. Force* ¹ (kN)	5	10	20	30	50	100	200
Stroke(mm)	100/250		100/200/350			100/200/350	100/200
Max. Speed(mm/s)	300	180	270	240	150	150	110
Controller	CPS-SP-75**					BS-M3A-1A + Amp.	
Load Accuracy	± 1.5% @Load cell FS						
Load Repeatability	± 0.5% @Load cell FS						
Positional Repeatability	± 0.01mm (under identical load)						
Ambient Conditions	0~45°C / 85% or less (with no condensation)						
Max. Power Capacity(kVA)	0.75	0.75	1.85	2.5	3.5	7.5	10.0

*1 This is not continuous operating force. 70% of Max. force is recommended for repeated operations.

How to order

CS30 - 200 B

① Model No.
② Stroke(mm)
100/250..... CS05/10
100/200/350 CS20/30/50

③ Holding Brake
B: With Holding Brake
- : Without Holding Brake

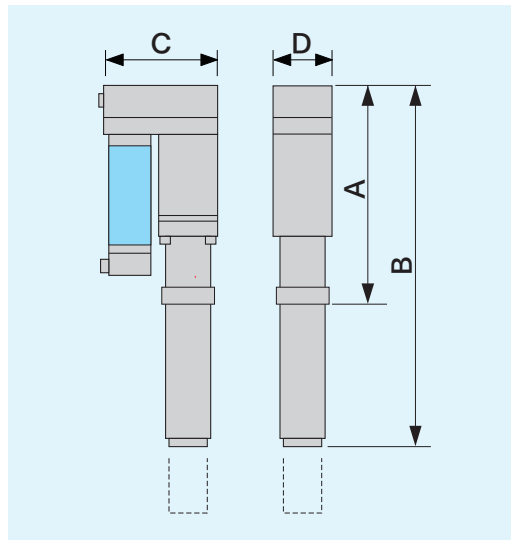
BS200 - 200 B C

① Model No.
② Stroke(mm)
100/200/350 BS100
100/200..... BS200

③ Holding Brake
B: With Holding Brake
- : Without Holding Brake

④ Built-in Load cell
C: Without Built-in Load cell (BS200 only)
- : With Built-in Load cell (as standard)

TOOL DIMENSIONS



Tool model	A(mm)	B(mm)	C(mm)	D(mm)	Weight(Kg)
CS05-100	335	465	150	65	13
CS05-250		670			18
CS10-100	335	465	150	65	13
CS10-250		670			18
CS20-100	390	510	200	80	24
CS20-200		650			28
CS20-350		850			34
CS30-100	398	555	215	94	32
CS30-200		680			36
CS30-350		860			42
CS50-100	565	810	260	135	73
CS50-200		890			79
CS50-350		1070			93
BS100-100	535	780	290	135	84
BS100-200		860			90
BS100-350		1040			104
BS200-100	721	1038	451	228	170
BS200-200		1138			184

Contributing to CO₂ reduction

1. Completely electrically controlled
2. Low energy consumption
3. Compact design

CORETEC INC.

Headquarters:
500 Akahama, Soja-shi, Okayama 719-1121, Japan
TEL +81 866-94-9011 FAX +81 866-94-1178

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