

AC SERVO PRESS Intelligent press system for the new era





FEATURES



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.

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

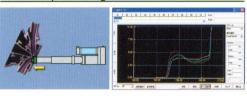
Installation of optional circuit boards provides compatibility with CC-Link, DeviceNet, Profibus and other applications.

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

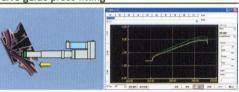
3. Production of a Wide Variety of Product Models

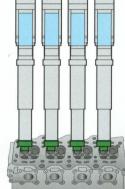
Major parameters within programs can be changed through a PLC. Creation of a single program allows for handling variations between multiple product models.

Valve seat press fitting



Valve guide press fitting

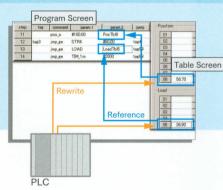






Program Rewrite/Reference Table

- 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

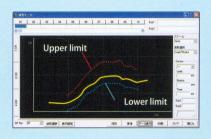
Automatic program creation function included as standard on PC applications allowing for complete creation of general-purpose programs with only a requisite minimum of settings.

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
- •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.



MAIN APPLICATIONS

Bearing press fitting

Riveting

Valve seat press fitting

Pin press fitting

Valve guide press fitting Bushing press fitting Multi-stage press fitting

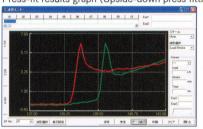
Plug press fitting

g Flattening/Straightening

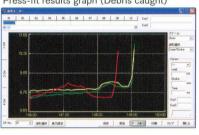


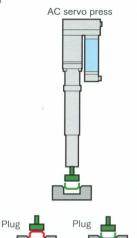
Example of Actual Use (Plug press-fit results)

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



Press-fit results graph (Debris caught)

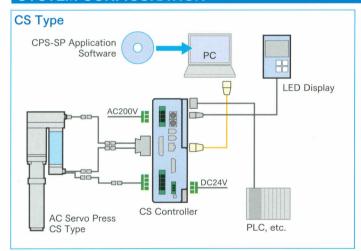


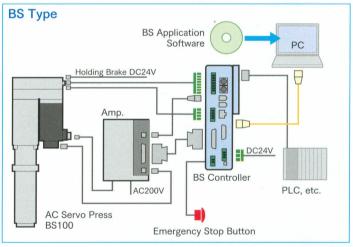


Upside-down press fitting

Debris caught

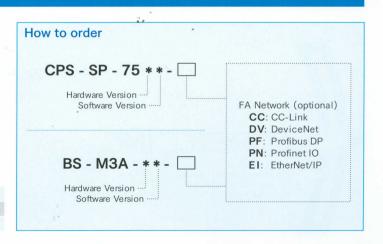
SYSTEM CONFIGURATION





CONTROLLERS





AC SERVO PRESS

LINEUP										
Model No.	MS02	CS05	CS10	CS20	CS30	CS50	BS100	BS200		
Max. force ^{*1} (kN)	2	5	10	20	30	50	100	200		
Stroke (mm)	100	100/	100/250 100/200/350		100/200/350	100/200				
Max. Speed (mm/s)	225	300	180	270	240	150	150	110		
Controller	BS-MR-J4		СР	BS-M3A-1A + Amp.						
Load Accuracy		± 1.5% @ Load cell FS								
Load Repeatability		± 0.5% @ Load cell FS								
Position Repeatability		± 0.01mm (under identical load)								
Ambient Conditions		$0^{\sim}45^{\circ}\text{C}$ / 85% or less (with no condensation)								

^{*1} This is not continuos operating force. 70% of Max. force is reccomanded for repeated operations.

3.5

*2 Contact us if you require forces larger than BS200

7.5

10.0

How to order

CS30 - 200 B C 1 2 3 4

Max. Power Capacity (kVA)

_

1 Model No. 2 Stroke (mm) 3 Holding Brake
B: With Holding Brake

-: Without Holding Brake

100/250......CS05/10

100/200/350....CS20/30/50/BS100

100/200.....BS200

How to order

0.75

BS200 - 200 B C

1

0.75

2 3 4

1.85

2.5

1 Model No.

2 Stroke (mm)

100/250.....CS05/10 **100/200/350**....CS20/30/50/BS100

100/200.....BS200

3 Holding Brake

B: With Holding Brake

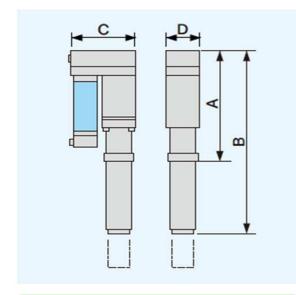
-: Without Holding Brake

4 Built-in Load cell

C: Without Built-in Load cell (BS200 only)

-: With Built-in Load cell (as standard)

TOOL DIMENSIONS





Contributing to CO₂ reduction 1.Completely electrically controlled 2.Low energy consumption 3.Compact design

Tool model	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
MS02-100	167	262	108	48	3.6
CS05-100	335	465	150	65	13
CS05-250	333	670	130	03	18
CS10-100	335	465	150	65	13
CS10-250	333	670	130	03	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	/21	1138	431	220	184



 $\boldsymbol{\ast}$ Specifications, dimensions and shape are subject to change without prior notification



Via Cesare Battisti, 16/18 - 24035 Cumo (Bg) Tel. 035/618.120 r. a. - Fax 035/618.250 info@burster.it - www.burster.it