

AC SERVO PRESS

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-75A				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.
*2 Contact us if you require forces larger than BS200.

How to order

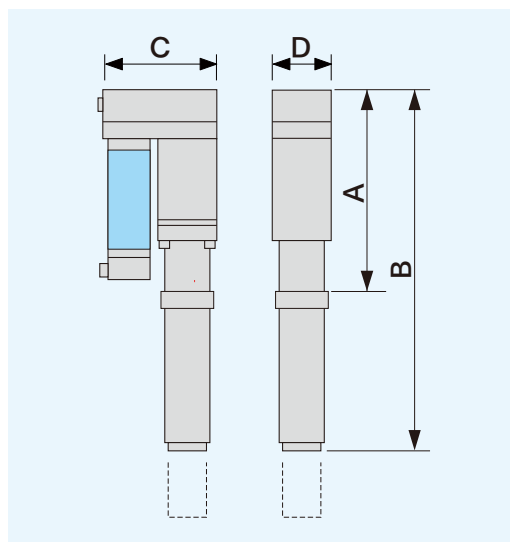
CS30 - 200 B C

① ② ③ ④

① Model No.
② Stroke(mm)
100/250.....CS05/10
100/200/350CS20/30/50/BS100
100/200.....BS200

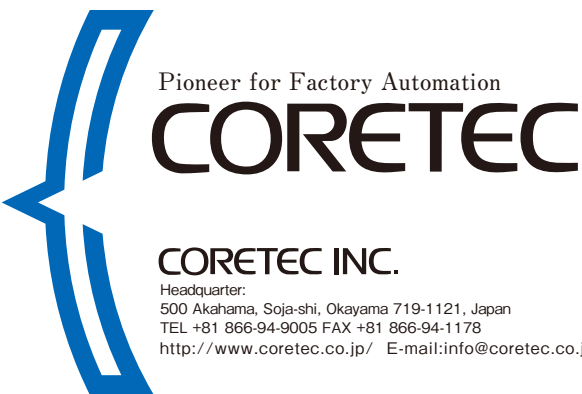
③ Holding Brake
B: With Holding Brake
- : Without Holding Brake
④ Built-in Load cell
C: Without Built-in Load cell (BS200 only)
- : With Built-in Load cell (as standard)

TOOL DIMENSIONS

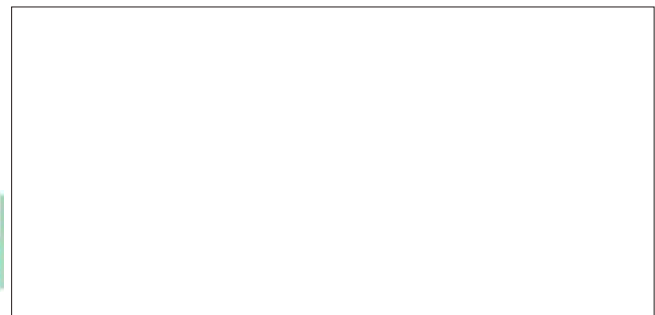


Tool model	A(mm)	B(mm)	C(mm)	D(mm)	Weight(Kg)
CS05-100		465			13
CS05-250	335	670	150	65	18
CS10-100		465			13
CS10-250	335	670	150	65	18
CS20-100		510			24
CS20-200	390	650	200	80	28
CS20-350		850			34
CS30-100		555			32
CS30-200	398	680	215	94	36
CS30-350		860			42
CS50-100		810			73
CS50-200	565	890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

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



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



CS0804-1000

AC SERVO PRESS

Intelligent press system for the new era



FEATURES

1 Sophisticated Press Tool

1. Compact Design

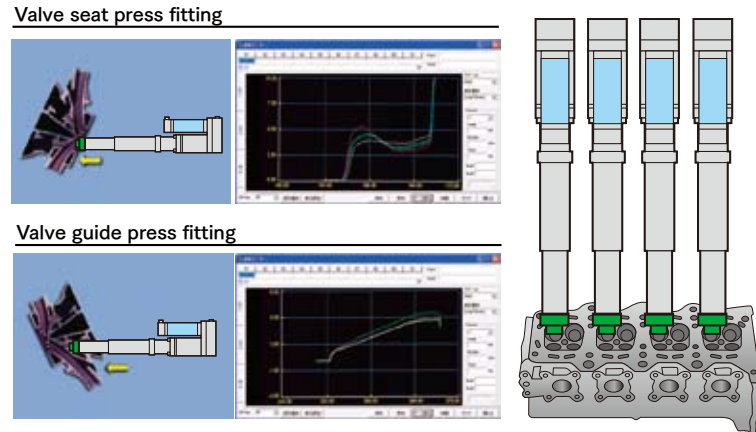
The design combines mechanical strength with the compactness of a hydraulic cylinder. Space-saving design and minimum mounting pitches allow for multi-axis press fitting.

2. Intelligent Functionality

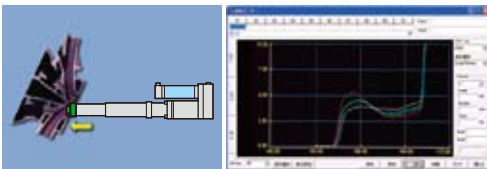
The press tool is equipped with a CPU enabling it to store items such as model numbers and load values in a self-memory, and thereby eliminating controller mismatch errors.

3. Maintenance Support

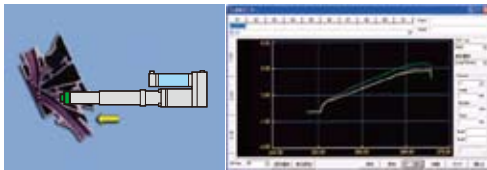
This press tool performs self-control of operation counts and travel distances to support systematic maintenance.



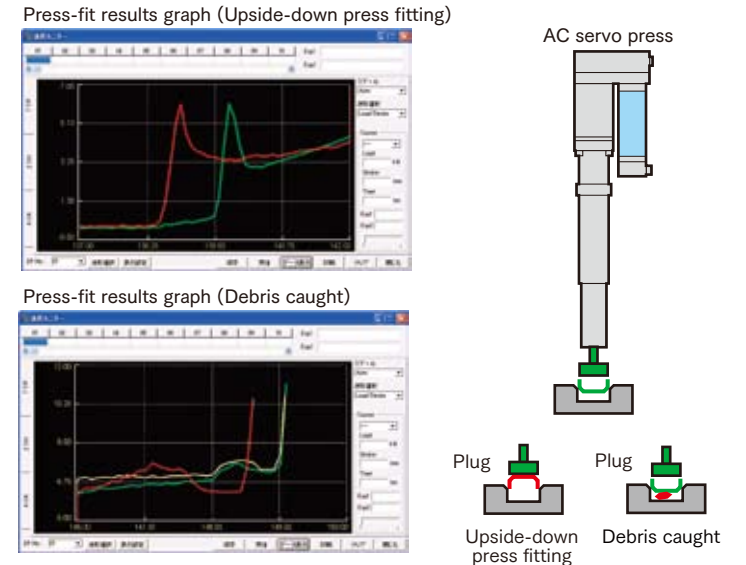
Valve seat press fitting



Valve guide press fitting


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)


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.

Programming Overwriting Function

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

prog.#	SpdTst	PosTst	Move to initial point
trg1	inp.pr	LoadTst1	trg2
inp.pr	LOAD	LoadTst2	Load limit exceeded
inp.pr		trg1	
trg2	strt	been	Stop data collection
trg2	TP1.in		
trg2	inp.pr	SpdTst	PosTst
trg2	inp.pr	STRK	PosTst
inp.pr	LOAD	RS10	Load limit exceeded

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

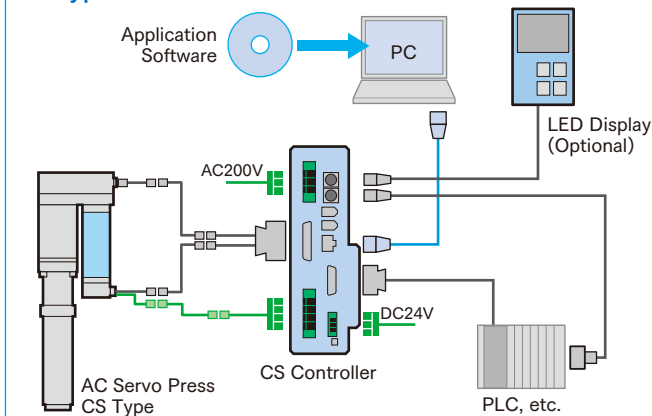
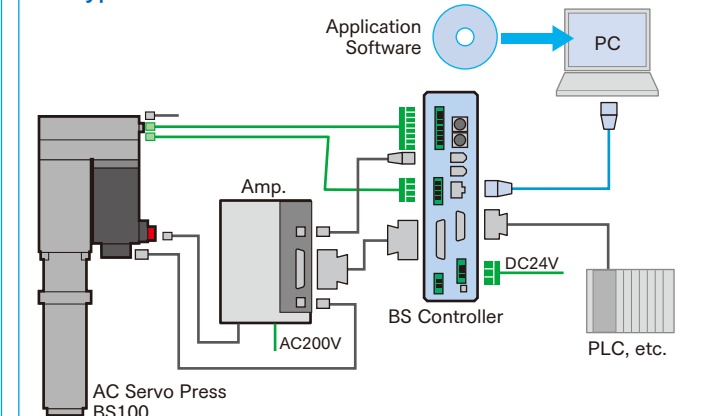
Automatic program creation function included as standard on PC applications allowing for complete creation of general-purpose programs with only a requisite minimum of settings.

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.


SYSTEM CONFIGURATION
CS Type

BS Type

CONTROLLERS


How to order
CPS-SP-75A - CC
 FA Network (Optional)
CC: CC-Link
DV: DeviceNet
PF: Profibus

	Controller CS Type	Controller BS Type	Master Controller CS Type
Model No.	CPS-SP-75A	BS-M3A-1A-CC	MA-CS-1A-DV
Dimensions(mm)	65 × 230 × 198	51 × 110 × 198	51 × 110 × 198

Master System Configuration
