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-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℃ / 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 ② ③

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

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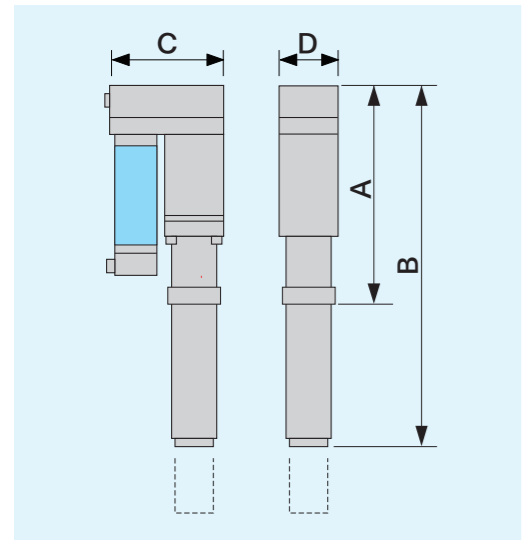　- : Without Holding Brake

BS200 - 200 B C
① ② ③ ④

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

③Holding Brake
B: With Holding Brake
　- : Without Holding Brake
④Built-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	335	670	150	65	18
CS10-100	335	465	150	65	13
CS10-250	335	670	150	65	18
CS20-100	390	510	200	80	24
CS20-200	390	650	200	80	28
CS20-350	390	850	200	80	34
CS30-100	398	555	215	94	32
CS30-200	398	680	215	94	36
CS30-350	398	860	215	94	42
CS50-100	565	810	260	135	73
CS50-200	565	890	260	135	79
CS50-350	565	1070	260	135	93
BS100-100	535	780	290	135	84
BS100-200	535	860	290	135	90
BS100-350	535	1040	290	135	104
BS200-100	721	1038	451	228	170
BS200-200	721	1138	451	228	184

Contributing to CO_2 reduction
1. Completely electrically controlled
2. Low energy consumption
3. Compact design

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

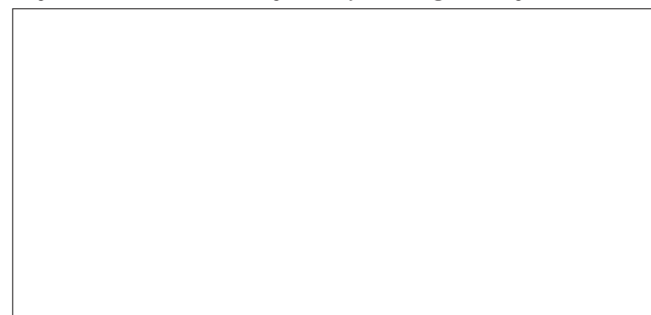# AC SERVO PRESS
Intelligent press system for the new era

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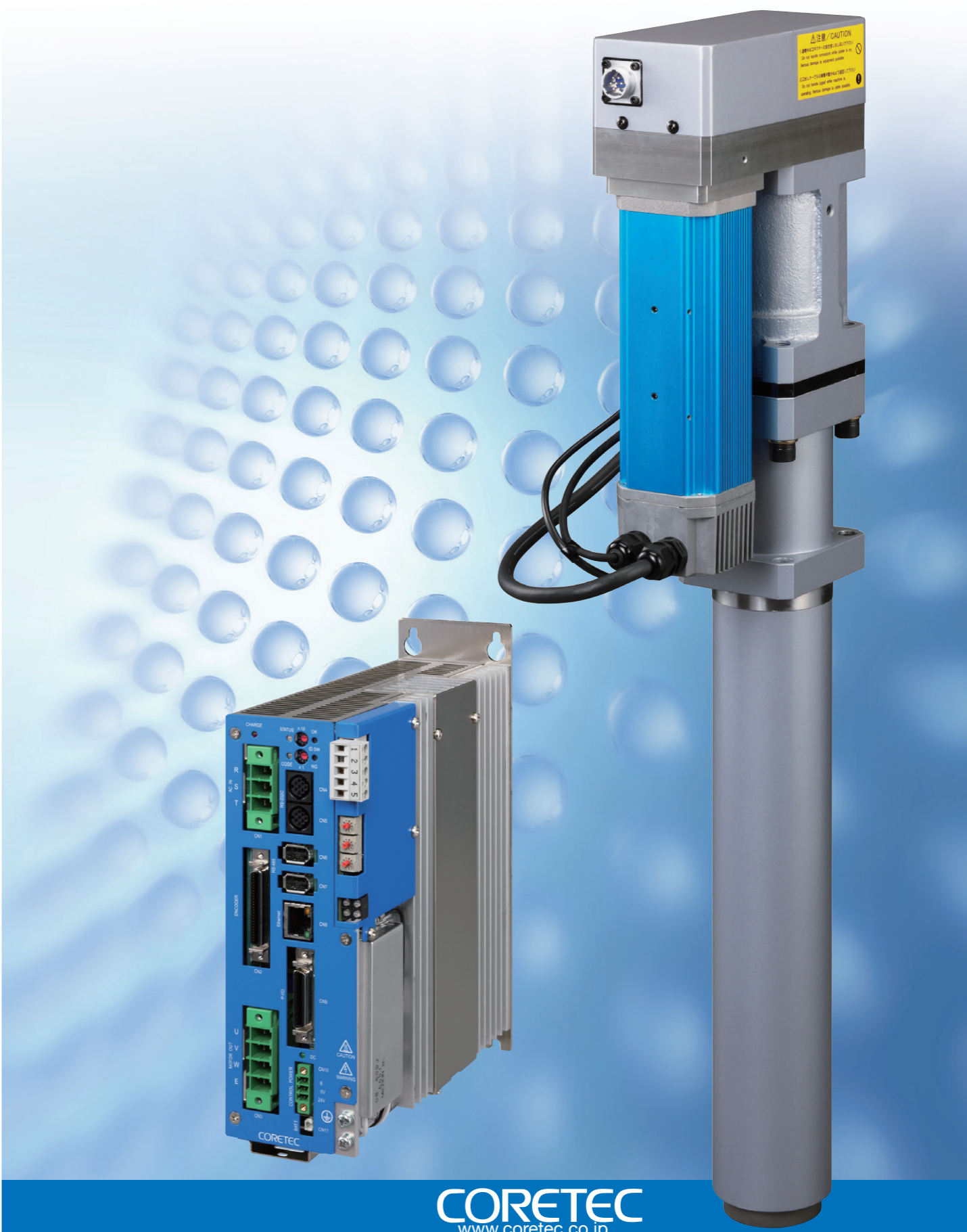sales@a-tech.ca; www.a-tech.ca Toronto: 416 754 7008, Montreal: 514 695 5147, Toll Free:1888 754 7008

CS3-1205-1000

CORETEC
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CE

FEATURES

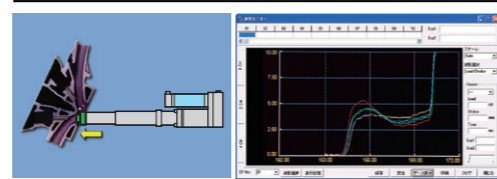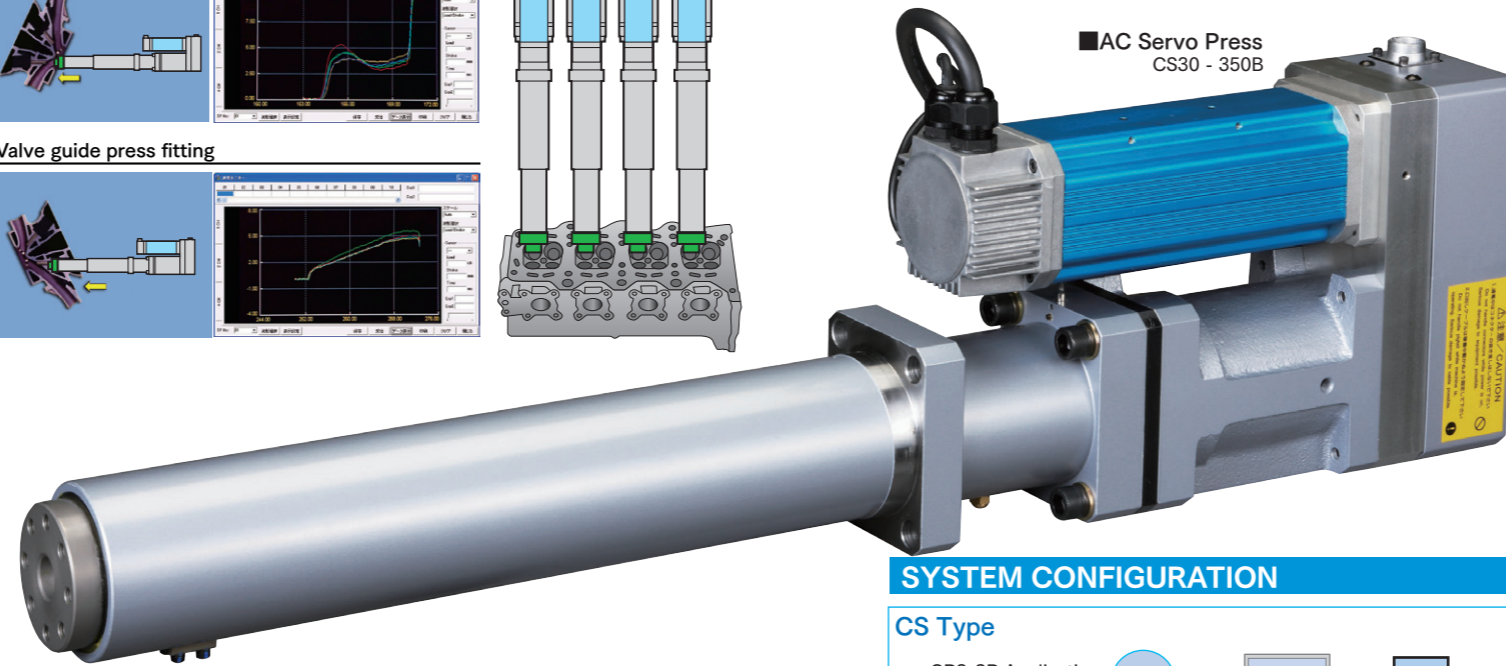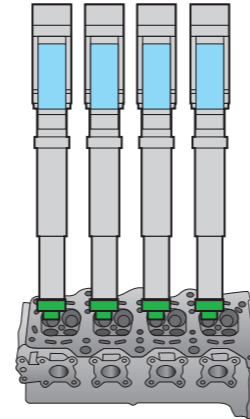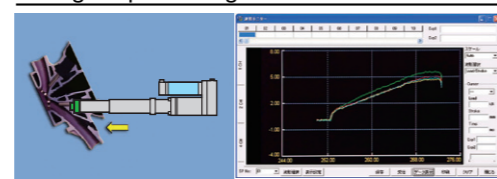# 1 Sophisticated Press Tool

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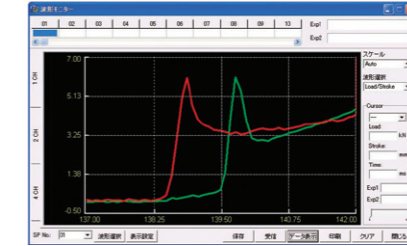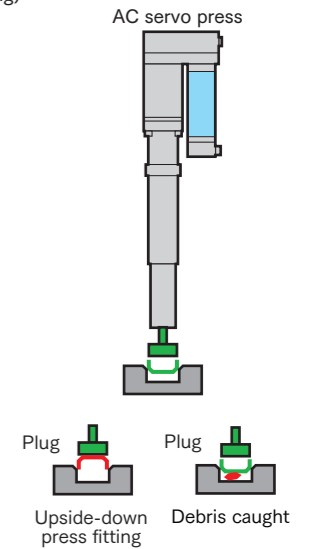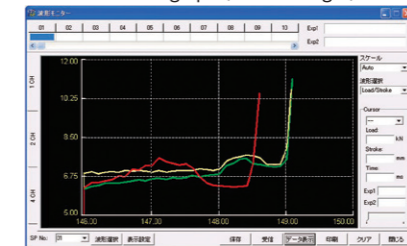
2. Intelligent Functionality
The press tool is equipped with a CPU enabling it to store items such as model numbers and load values in a self-memory, and thereby eliminating controller mismatch errors.

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

■AC Servo Press
CS30 - 350B

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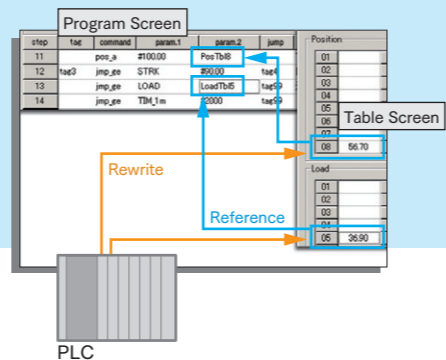
2. Improved Traceability
Installation of optional circuit boards provides compatibility with CC-Link, DeviceNet, Profibus and other applications.
Supporting PLC memory storage of numerical results in addition to basic input/output operations.

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.

Program Screen

Table Screen

Rewrite

Reference

PLC

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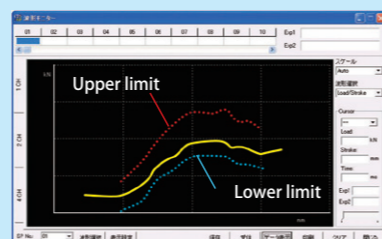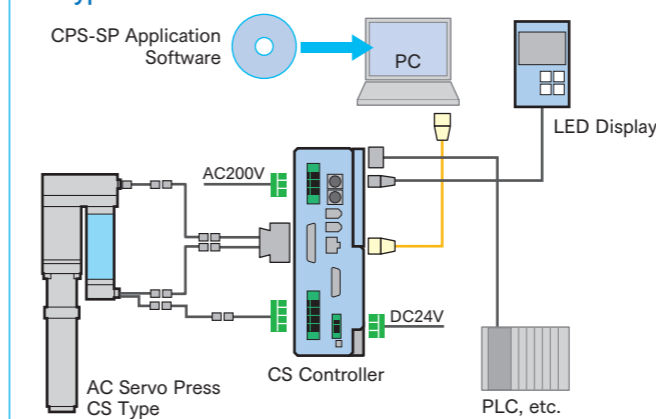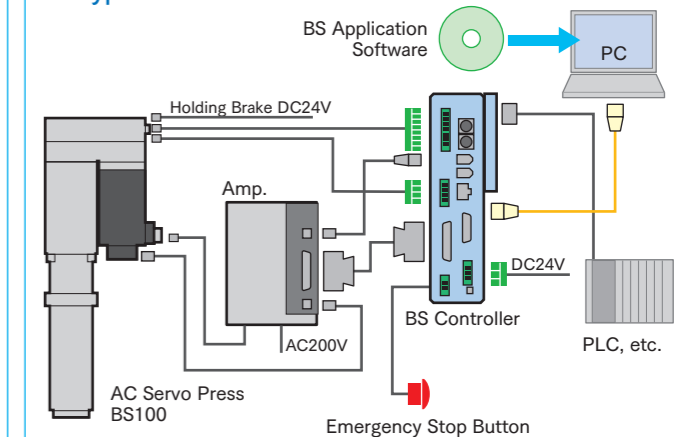
2. Easy Program Creation
Automatic program creation function included as standard on PC applications allowing for complete creation of general-purpose programs with only a requisite minimum of settings.

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.

Upper limit

Lower limit

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)

AC servo press

Plug   Plug

Upside-down   Debris caught
press fitting

SYSTEM CONFIGURATION

CS Type

CPS-SP Application Software

PC

LED Display

AC200V

DC24V

AC Servo Press
CS Type

CS Controller

PLC, etc.

BS Type

BS Application Software

PC

Holding Brake DC24V

Amp.

DC24V

BS Controller

PLC, etc.

AC Servo Press
BS100

AC200V

Emergency Stop Button

CONTROLLERS

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

Monitoring Only

How to order

CPS - SP - 75 ∗∗ - □

Hardware Version
Software Version

BS - M3A - ∗∗ - □

Hardware Version
Software Version

FA Network (optional)
CC: CC-Link
DV: DeviceNet
PF: Profibus DP
PN: Profinet IO
EI: EtherNet/IP