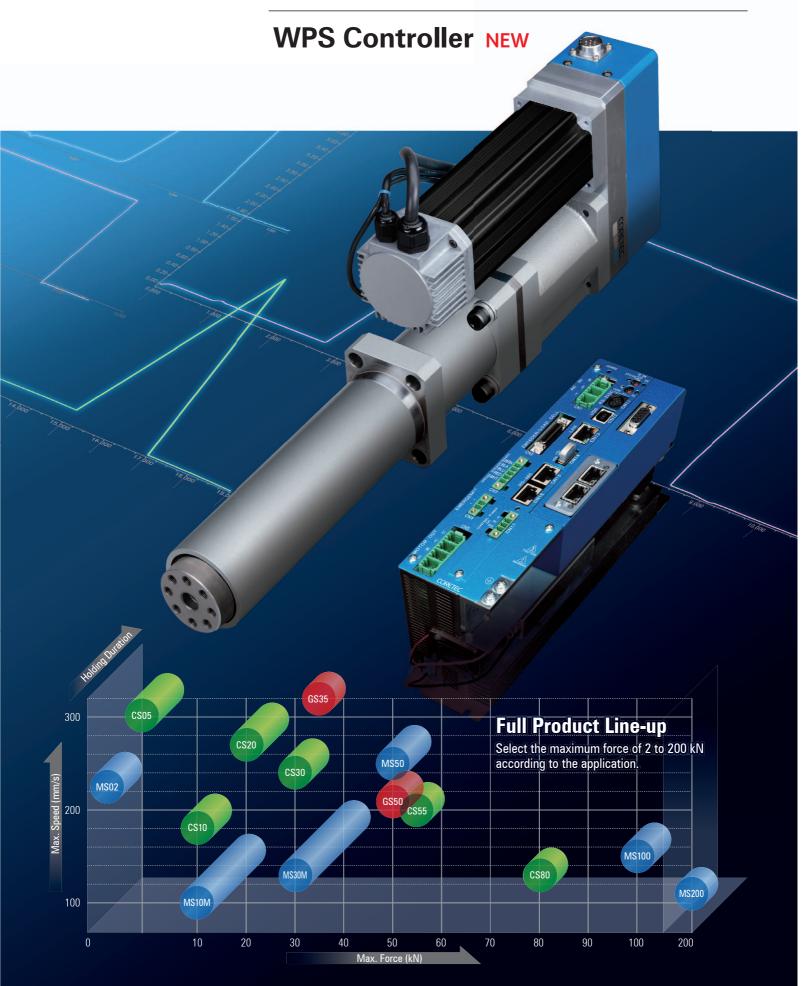


Ultimate Easy Use and Performance

AC Servo Press

CS Series GS Series MS Series



AC Servo Press CS/GS Series

AC Servo Press MS Series

MS



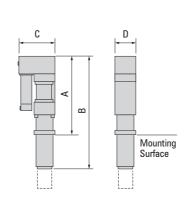
Specifications

Model	CS05	CS10	CS20	CS30	GS35	GS50	CS55	CS80	MS02	MS10M	MS30M	MS50	MS100	MS200
Max. instantaneous force (kN)	5	10	20	30	35	50	55	80	2	10	30	50	100	200
Applicable force (kN)*1	3	7	14	21	35	40	45	70	1.5	7	21	45	70	150
Max. stroke (mm)	100	/250	100/20	00/350	200	/400	100/20	00/350	100	100/250	1	100/200/350)	100/200
Special stroke (mm)	1!	50	400	400/500	10	00	400/500		200	200 150 400/500			300	
Max. speed (mm/s)*2	300	180	270	240	320	215	200	135	225	100	130	250	150	110
Controller model	WPS-SP30 d	P30 or WPS-SP75 WPS-SP75					WPS-MSJ4 + Amplifier							
Load cell accuracy	±1.5% @FS (Repeatability ±0.5% @FS)*3													
Positional repeatability	±0.01mm *3													
Max. power supply capacity (kVA)	0.	75	3	.5	4.		4.2		0.3	0.9	3.5	5.5	7.5	10
Brake holding load (kN)	0.6	1.1	3.7	4.1	1.8	2.6	2	.5	0.5	1.1	4.1	1.8	2.5	23.4

^{*1:} This is the applied force in consideration of the mechanical life. *2: Coretec recommends using CS and GS models at 75% or less of the maximum speed. A maximum press fitting speed of 30 mm/s is recommended for all models. *3: Under the same conditions * Please feel free to inquire about specifications for models not indicated above.

Dimensions

Model No.	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)	
CS05-100B		466			13	
CS05-250B	335	671	150	65	18	
CS10-100B	330	466	130	00	13	
CS10-250B		671			18	
CS20-100B		511			24	
CS20-200B	390	651	200	80	28	
CS20-350B		851			34	
CS30-100B		556			32	
CS30-200B	398	681	215	94	36	
CS30-350B		861			42	
GS35-200BK		760			66	
GS35-400BK	487	1000	260	118	82	
GS50-200BK	407	760	200	110	66	
GS50-400BK		1000			82	
CS55-100BK		781			76	
CS55-200BK		861			82	
CS55-350BK	535	1041	290	135	96	
CS80-100BK	333	781			76	
CS80-200BK		861			82	
CS80-350BK		1041			96	



Model No.	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
MS02-100B	162	262	108	48	3.5
MS10M-100BK	335	466	152	65	13
MS10M-250BK	ააა	671		65	18
MS30M-100B		573			33
MS30M-200B	415	698	215	94	37
MS30M-350B		878			43
MS50-100BK		781		135	79
MS50-200BK		861			85
MS50-350BK	535	1041	290		99
MS100-100B		781			84
MS100-200B		861			90
MS100-350B		1041			104
MS200-100B	721	1146	451	228	170
MS200-200B	121	1246		220	184

■ Tool Model Notations

Series name GS 35 M - 400 B B: With holding brake CS,GS,MS C: No load cell (MS200 only) K: No origin sensor Max. force (kN) A: Absolute type (MS series only) 02,05,10,20,30,35, 50,55,80,100,200 (Refer to the specifications)

- Max. stroke (mm) 100,200,250,350,400 (Refer to the specifications)





WPS Controller

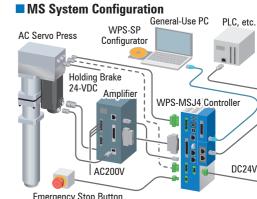
Product name	Compact controller	Standard controller	MSJ4 controller	
Model	WPS-SP30	WPS-SP75	WPS-MSJ4	
Control power				
Operating power	3-phase 200-230	_		
Cooling method	Natural air cooling	Built-in fan forced air cooling	_	
Regenerative function	_	80-W regenerative resistance	_	
External size (mm)	65×180×242	75×190×242	51×110×230	

■ Controller Model Notations

M: Load holding type

Indicates the hardware version	Optional Circuit Board		
Code initial model: A	Field bus		
NPS-SP30*- <mark>***</mark> -***			
-SP75*-***	Industrial-use		
-MSJ4*- <mark>***</mark> -***	Ethernet		
Code indicating the optional	P/IO		
circuit board of option slot 1	Linear encoder		
Code indicating the optional	Dedicated Ethernet circuit boa		





Equipped with two expansion slots for optional circuit boards. (All series)

■ Controller Specifications

CCL DEV PFN EIP CIF NPN PNP LNE soard SET

ANM

circuit board of option slot 2

Analog monitor

Equipped with two expansion slots for optional circuit boards. (All series)

Coretec's "AC Servo Press System": Adopted for a Wide Range of Production Processes

AC Servo Press Tools

Fully enhanced lineup with addition of GS Series

- The GS Series is an advanced version of the CS Series, with a stronger motor for increased capacity and no origin sensor.
- The MS Series uses a Mitsubishi motor and amplifier. This is a high value-added model with large force, high load, and absolute specifications and is excellent in slow speed operation.
- The middle mounting flange structure provides high rigidity despite its slimness. Internal structure that allows pull operation (except MS200)
- Equipped with a load cell amplifier with a built-in microprocessor. Provided with tool ID function as well as a linearity correction function and tool operation history.

WPS Controller

Next-Generation controller with improved expandability, safety and convenience

- Inherits the features of previous generations of controllers while also adopting cutting-edge methods and features. This controller can also be used to control existing CS and MS tools being used.
- A compact controller has been added specifically for small tools. This enhances cost competitiveness.
- Two expansion slots are provided for connection to external devices. Optional circuit boards can be installed to support various types of communication and control.
- All types are equipped with a dedicated emergency stop input to ensure safety. This allows you to directly connect an emergency stop button.
- The use of non-volatile memory enables battery-free operation. This eliminates troublesome replacement procedures and enables easy transport.

Massive Improvement in Work Data Storage and Analysis Capabilities

Improved Data Collection and Analysis Capabilities

A maximum of 100,000 points*1 of data can be saved per waveform of operation results every 0.25 ms in the shortest*2.

A total of four waveforms can be selected and saved for tool speed, current load factor, load rate, and similar items as based on load and stroke.

Equipped with USB Memory

Enables saving of various data and history.

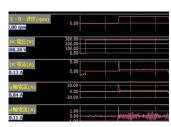
- · Numeric/Waveform data
- Program archives
- Alarm record, etc.
 Other functions
- · Firmware updating

Scope Function

Up to eight types of specific data in the controller can be continuously transmitted to the PC side.

As it can continuously monitor data, it is expected to be used for analyzing rare phenomena and for IoT applications.





Servo Systems with Various Performance Enhancements

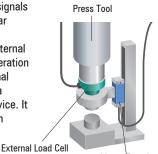
Thorough Pursuit of Basic Performance

A program execution cycle of 0.25 ms*3 provides even better responsiveness and repeatability.

Control by External Load Value and Stroke Value

Can control the tool by reading signals from external load cells and linear sensors.

In particular, control using an external linear encoder enables press operation with dramatically better positional accuracy while also using it as a high-precision measurement device. It is perfect for fields requiring high precision.



Linear Encoder (Designated Manufacturer)

The load signal from the external load cell converted by the dedicated load cell amplifier is connected to the WPS controller via a standard cable. The stroke signal from the external linear encoder is connected to an optional circuit board of the WPS controller.

Load value, stroke value, tool speed, load change rate, motor current absolute value, DC voltage, PIN/POUT, program block, electronic thermal load rate, instantaneous load rate, mechanical brake status, origin sensor, external stroke, etc.

Great advancement of "Reliability" as well as "Performance"

The features of Coretec's products, such as

high-speed response

free operation

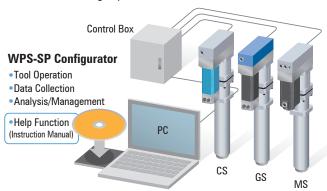
real-time judgment control

have been further refined.

Press System Designed to Pursue Ease of Use

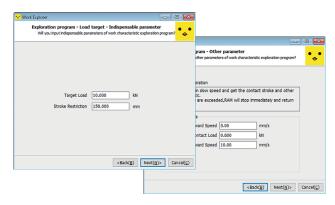
Completed in All-in-One Application Software

One software package covers everything from tool operation to data collection, analysis and management for all servo tools of the CS/GS/MS Series. The software is available in multiple languages. There is also a full range of help functions to provide operability and ease of understanding beyond the instruction manual.



Work Explorer Function

Simply set the workpiece and enter a few parameters interactively to start the tool. The easiest and most realistic method to create a program, which finds the contact position with the workpiece and automatically generates an operating program, is available.



Easy-to-Understand Programming Methods

Programming methods include adoption of a "block method" that makes it easy to grasp the flow of operations and a "label method" that allows names to be attached to variable parts for ease of understanding.

The function for rewriting programs from the PLC has been inherited. Equipped with a function for converting programs from CPS to WPS style.



Programming Screen (Partial)

Expanded Post-Operation Judgment Function

In addition to Coretec's characteristic real-time judgment function, we have added a post-operation judgment function that is processed internally by the controller after operation. In addition to standard zone and frame judgments, upper and lower limits can be judged using general numerical values.

Moreover, a new function to link with external judgment applications has also been added. This allows each customer to use their own preferred judgment methods. The internal and external judgment results are combined for a comprehensive pass/fail judgment.



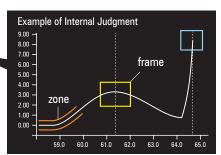
Operation Simulator

Software to verify press operation on a PC in advance is available.

This enables customers to smoothly select and start up their tools.



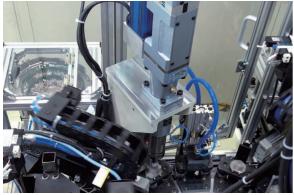
Operation data is sent and judgment results are captured.



·Real zone judgment ·Real frame judgment Post zone judgment
 Post frame judgment

Real-time judgment can be used to stop the system immediately when it exceeds the range of a zone or frame during operation.

In post judgment, the actual start or bottoming-out point of a press fit can be used as a reference point after operation so that the stroke value can be corrected before judament.



Terminal Press Fitting

Applications

Press fitting (bearings, bushings, pins, and the like), staking, bending, forming, joining, punching, cutting, engraving, clamping, straightening, hot press, inspection, etc.

Stack compression, valve seat/guide press fitting, pressurized height measurement, bending of electric component terminals, long-term constant pressure, ultrasonic welding, heat welding, various testing (endurance test, and the like), etc.



Coretec can deliver servo presses of 2 to 200 kN with various specifications as well as peripheral electrical equipment.

■AC Servo Related Products



C-Frame Multi Press

Allows you to start working right after connecting to a power source.

No need to create operating programs.



Multi Controller

An all-in-one controller that provides completely free servo press operation. All electrical components, including the safety PLC, are housed in a compact enclosure.



Nutrunner

Perfect for tightening high-precision parts in production lines.
Compact, long life, and high rigidity.



Head Office/Factory

Chubu Office

Kanto Office

500 Akahama, Soja-shi, Okayama, 719-1121
Tel. +81 866-94-9016 Fax +81 866-94-1178
2-14 Akebono-cho, Toyota-shi, Aichi, 471-0835
Tel. +81 565-71-9000 Fax +81 565-71-9010
Fuji Building 3rd floor, 2-7-4 Shinyokohama, Kohoku-ku, Yokohama-shi, Kanagawa, 222-0033
Tel. +81 45-442-9088 Fax +81 45-442-9089

CORETEC is the brand logo of CORETEC's NB brand.

EUROPEAN REPRESENTATIVE burster Italia S.r.l.

Via Repubblica, 10 - 24035 Curno BG Tel.: +39/035/618120

@: info@burster.it

https://www.burster.it/southeasteurope/

URL https://www.coretec.co.jp/ E-mail info@coretec.co.jp

*Specifications are subject to change without notice.