

Sanyo machine works **M**ulti motion new **G**eneration **P**ress system



High Performance Servo Press

SMGP



SMGP-PT2-010PL-200

SMGP-PT2-030PL-200

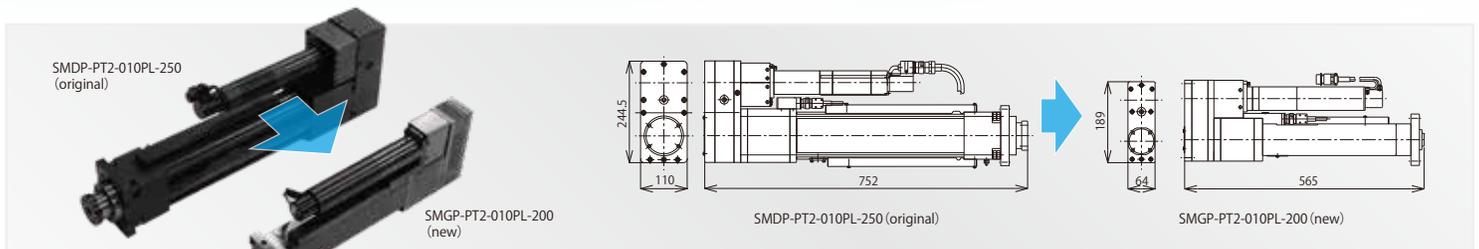
SMGP-PT3-050PL-200

SMGP-PT3-120PL-200

Lighter, Smaller, Space Saving

The size of the press tool has been reduced by 60-90% from our original servo-press and the weight reduced by 40-60%.

The height of the driver is 30mm shorter than our original. This lighter, smaller design saves valuable cell space and offers great flexibility.



SMDP-PT2-010PL-250 (original)

SMGP-PT2-010PL-200 (new)

SMDP-PT2-010PL-250 (original)

SMGP-PT2-010PL-200 (new)

Press Tool

High-power, high speed motor reduces cycle times

Sanyo developed our next generation press with a faster more powerful motor designed specifically for our new generation press tool.

Cycle times can be lowered using approach speeds 150-190% faster than our original products.

High Performance

Pressing force is confirmed and verified by load cell for quality and accuracy. Stopping accuracy rated at +/- 2% provides great performance and repeatability making this tool ideal for press-fit depth management.

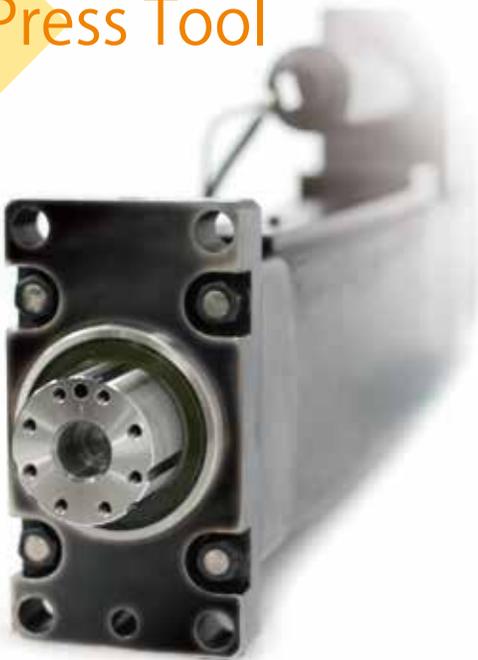
High Accuracy of press control

Tried and tested servo control technology combined with High speed CPU enables high accuracy of press control.

High Durability and Excellent Reliability

To ensure outstanding durability, Sanyo servo presses passed a demanding 1 million cycle test, at rated load.

All units are tested for functionality and pressing accuracy before shipment.



Driver



Driver

Power Supply Separation

The drivers power supply is divided into control and drive power supply. Therefore, origin return operation after driver power off is unnecessary. This allows for setting up and monitoring when the drive power supply is turned off.

Flexible Pressing Settings

Eight different pressing programs and 32 independent pressing parameters can be pre-programmed for each connected press tool. This flexibility allows for combined pressing methods such as the load with length method. Various pressing options, such as load keeping, are also available.

Process Quality Monitoring

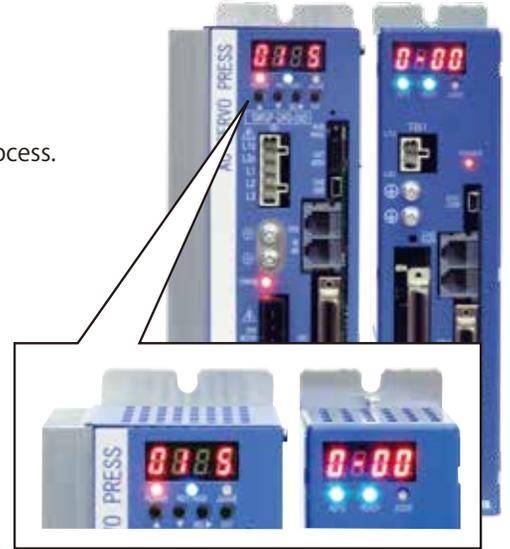
System performs process management and continuous monitoring during the entire process to ensure high-quality pressing. Judgement function detection allows for over 60 pressing errors to be monitored. Over 45 items can be selected for end-of-cycle pressing data such as various load, time and length judgments.

On-board 7-segment LED display for Easy Status Results

By using a 7 segment display, pressing judgement and results are easily viewed. The multi-controller displays program and parameter number during the pressing process.

Additional function

Add the output signal of the "Forward Position", "Position 1 output" and the "Position 2 output".
 Press data history saves 400 cycles and records the data for 20 load curves in the drive unit.
 Memory contents can be viewed on the display panel or by use of the Windows based User Interface Terminal Software.



Multi-Controller(Optional)

Optional Expansion Unit

Optional Expansion Unit allows for up to 4 additional option boards for increased flexibility.

Interface Options

The Multi-Controller has multiple option board interfaces to correspond to various manufacturing systems and global networks. RS232C, USB interface and 1 option board slot come standard.

Input / Output board	Sink input (NPN)
	Source input (PNP)
Field bus board	CC-Link
	CC-Link Ver.2
	DeviceNet
	Profibus
	Ethernet/IP
Data-communications board	Ethernet

Optional Expansion unit (shown here) is required when 4 additional option boards are being used.



Display Panel

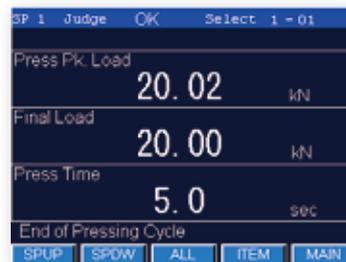
In addition to displaying Servo Press functions, the user can configure the screen to display for PLC operations. (Screen configuration software is required)

- There are multiple display languages; Japanese and English.
- PLC is able to accept pressing data from this unit.
- With the use of a high-speed CPU and highly efficient depiction LSI, information is displayed at near real-time.



Servo Press Operation

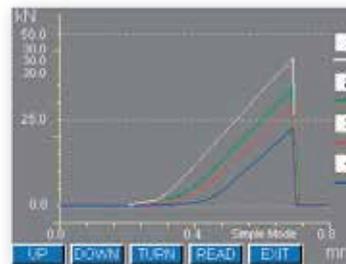
- Pressing setting (Programs & Parameters)
- Type M/S switching
- Data display
- Load curve monitoring
- NG and pressing reports
- USB port for saving settings and NG reports
- Maintenance mode for diagnostics
- Manual operation mode
- Back-Up settings to memory
- Password protection option
- Key lock protection option



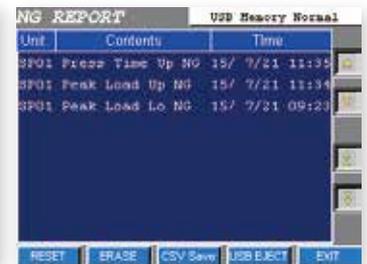
Pressing Data Display



Pressing Setting Display



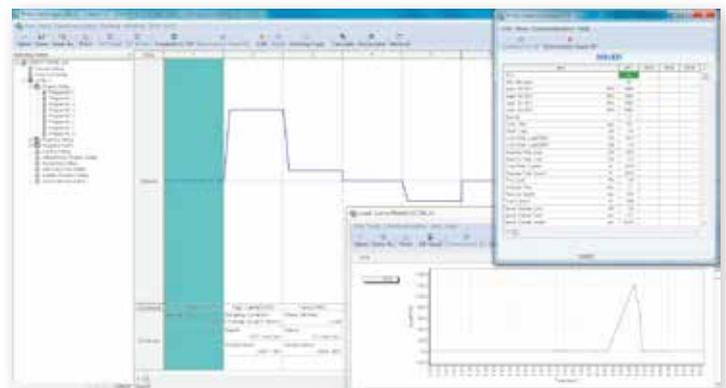
Load Curve Display



NG Report Display

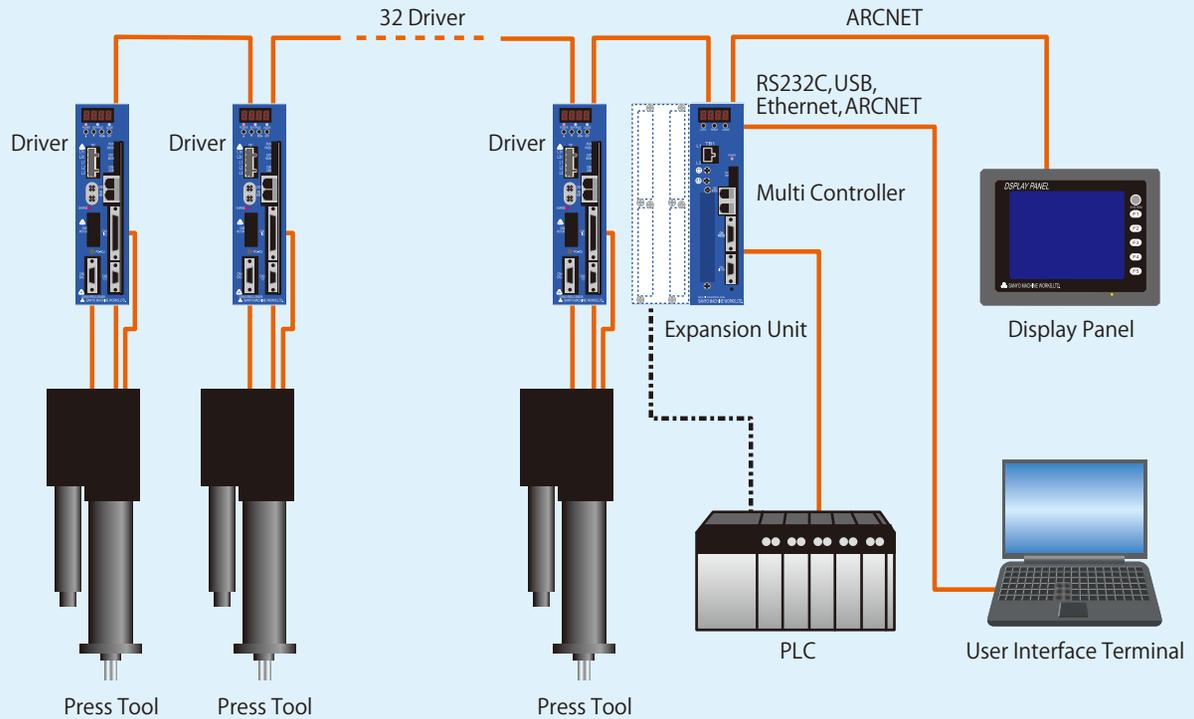
User Interface Terminal Software (Option)

- System configuration (programming)
- Pressing data acquisition
- Load curve acquisition and display
- System maintenance
- Data acquisition and exportation
- Communicate with a PC via RS232C Serial Communications, USB, Ethernet and/or optional high speed ARCNET unit.

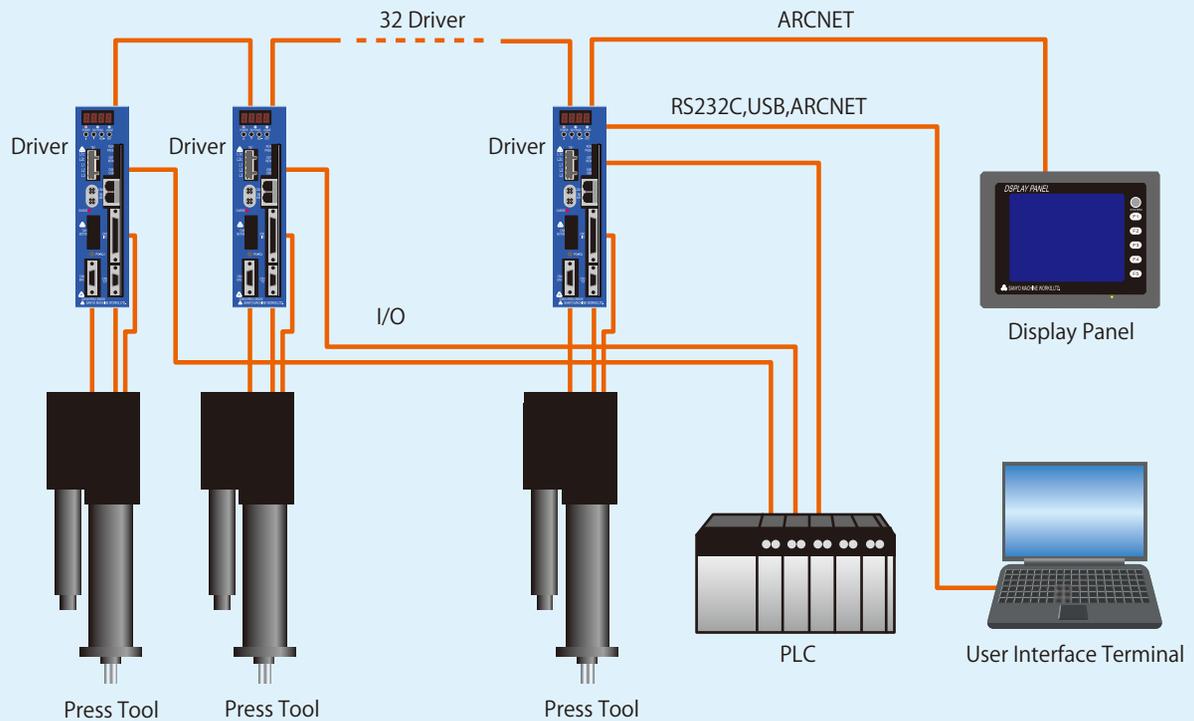


System Configuration

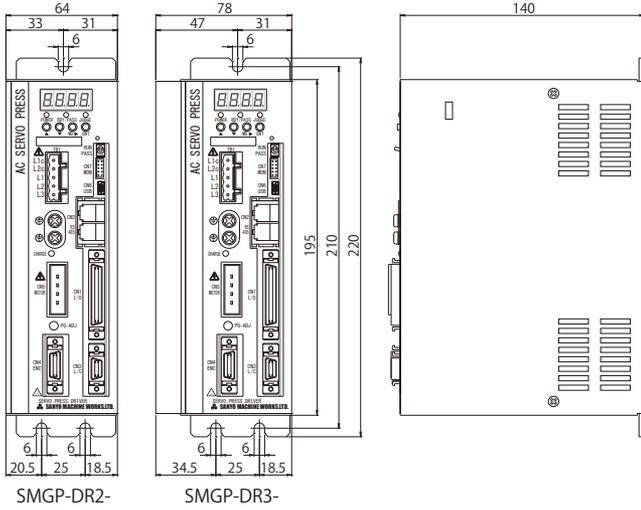
SMGP typeM



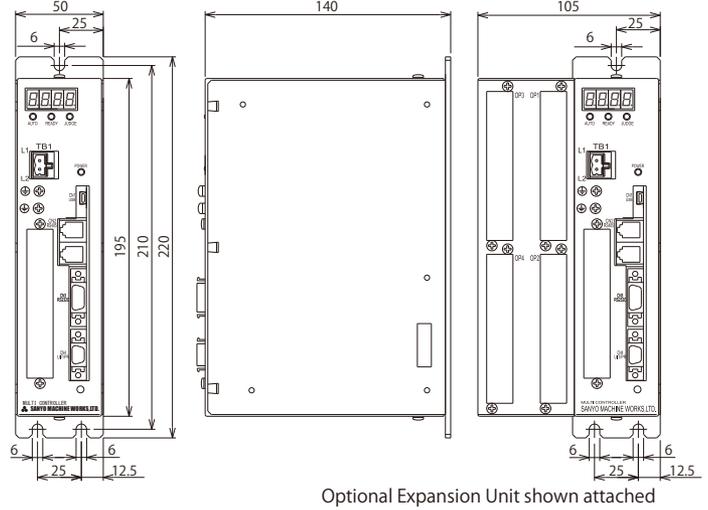
SMGP type S



Driver



Multi-Controller



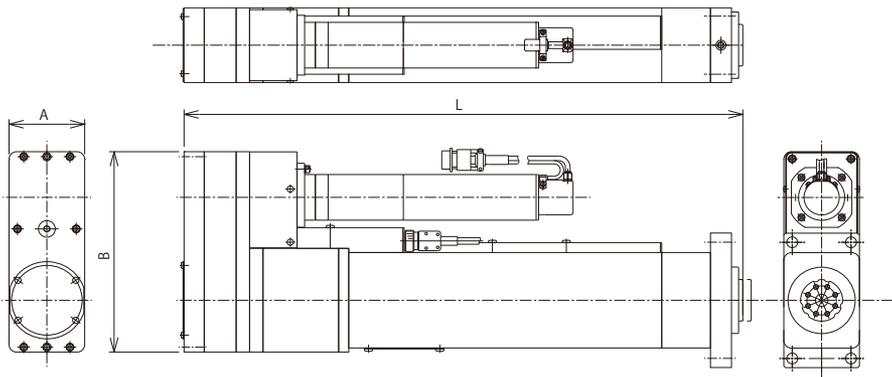
Driver Specifications

Model	Power Supply(V)		Control Average Consumption Power(W)	Drive Average Consumption Power(W)	Drive Peak Consumption Power(W)
	Control Power	Drive Power			
SMGMP-DR2-005	Single-phase AC180~242	Three-phase AC180~242	15	240	1900
SMGMP-DR2-010					
SMGMP-DR2-030					
SMGMP-DR3-050					
SMGMP-DR3-120				380	2500

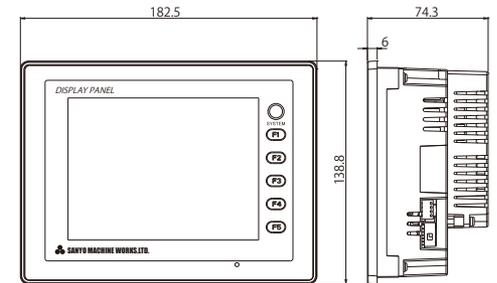
Multi-Controller Specifications

Model	Power Supply(V)	Peak Consumption Power(W)
SMGMP-MC	Single-phase AC180~242	7

Press Tool



Display Panel



Panel Cut Out W174.0 H131.0

Display Panel Specifications

Model	Power Supply(V)	Peak Consumption Power(W)
SMGMP-DP	DC24±10%	17

Press Tool Specifications

Model	Maximum Press Load (kN)	Maximum Speed in High Speed (mm/sec)	Maximum Speed in Press (mm/sec)	Stroke (mm)	Dimensions(mm) Width A × Depth B × Length L
SMGMP-PT2-005PL-200	5	225	30	200	64 × 189 × 565
SMGMP-PT2-010PL-200	10	225	30	200	64 × 189 × 565
SMGMP-PT2-030PL-200	30	208	27	200	90 × 241.5 × 675
SMGMP-PT3-050PL-200	50	124	16	200	110 × 283 × 777
SMGMP-PT3-120PL-200	120	64	8	200	140 × 360 × 974

Specifications subject to change without notice.



SANYO MACHINE WORKS, LTD.
No.1 Oka, Okimura, Kitanagoya-city,
Aichi-prefecture, Japan
Phone:0568-21-1111 Fax:0568-23-4711
E-MAIL:sales@sanyo-machine.co.jp
URL <http://www.sanyo-machine.co.jp>

SANYO MACHINE AMERICA CORPORATION
950 S. Rochester Rd., Rochester Hills, Michigan 48307
Phone:248-651-5911 Fax:248-651-5915
E-MAIL:sales@sanyo-machine.com
URL <http://www.sanyo-machine.com>

SANYO CANADIAN MACHINE WORKS, INC
33 Industrial Drive, Elmira, Ontario, Canada N3B 3B1
Phone:519-669-1591 Fax:519-669-5346
E-MAIL:sales@sanyo-machine.on.ca