



# SM2 *series*

**SM2-200~600 TONS**

**PROGRESSIVE STAMPING LINK MOTION  
MECHANICAL PRESS**

SM2-200-300-400-600-200-300-400-600  
SM2-200-300-400-600-200-300-400-600  
SM2-200-300-400-600-200-300-400-600

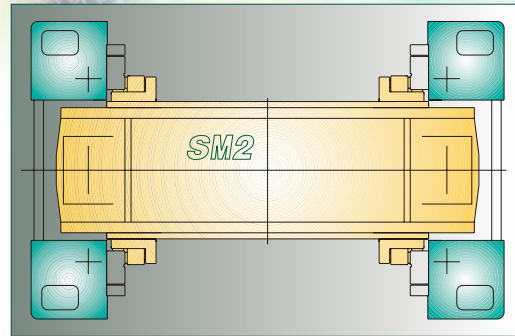
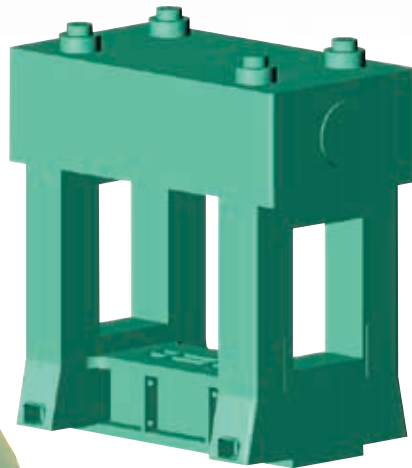


# Quality / Productivity / Safety

## Features

- ▶ **High Precision & Rigidity Structural Design**  
Precise 8-point gib & high rigidity structural design enables maximum resistance to deflection for product components requiring definitiveness.
- ▶ **Link Drive Structure**  
Slide features swift downward and return motions with delayed forming and releasing speed.
- ▶ **Low Forming Speed**  
Slide positioning reaches Bottom Dead Center in delayed motion (60% slower), which increases forming time by a factor of 1.7 resulting in minimization of die over-heating, reduction of vibration and noise level, and alleviation of product recoiling. Extension of die life span is achieved.
- ▶ **Unique Dynamic Balance System**  
During continuous high-speed punching process, vibration forces and noises are significantly reduced.
- ▶ **Two-point Connection Rod**  
Extra wide and ample distance between suspension points significantly increases resistance to eccentric load.
- ▶ **Forced Lubrication System with Sensor Detector**  
Forced circulation lubrication provides the guide portions with heat generation and wear prevention, on-going precision is attained.
- ▶ **Touch Screen Panel**  
Automatic monitoring and display of possible break-down conditions, enabling user friendly operations and maintenance.
- ▶ **Extremely Small Total Clearance**  
Total clearance is less than Class 1 of JIS (Japanese Industrial Standards).





**High Rigidity Straight Side Structure. Super-wide 8-point Gib**

- 3 split section tie-rod structure with re-tightening by hydraulic jacks.
- Slide & bolster bed processed under welding and annealing procedures, reducing deflection to less than 1/14000 (0.00087 inches per foot).
- Super-wide 8-point gib provides maximum assurance of accuracy and rigidity- most effective for products requiring super precision.



**Equipped with highly effective peripherals.**

- Compact 3-in-1 Servo leveler feeder enables proficient production rate.

Model		SLF2-40	SLF2-50	SLF2-60
Material Width	mm	400	500	600
Material Thickness	mm	0.5~4.5	0.5~4.5	0.5~4.5
Material Weight	kgs	3000	3000	3000



### Touch Panel

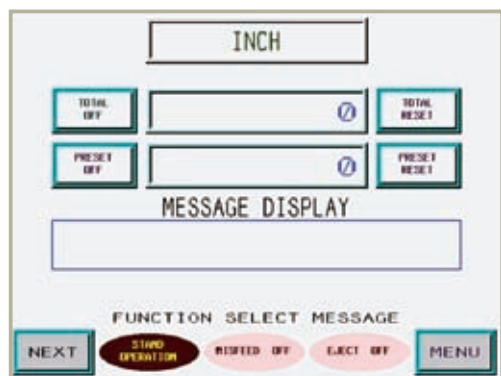
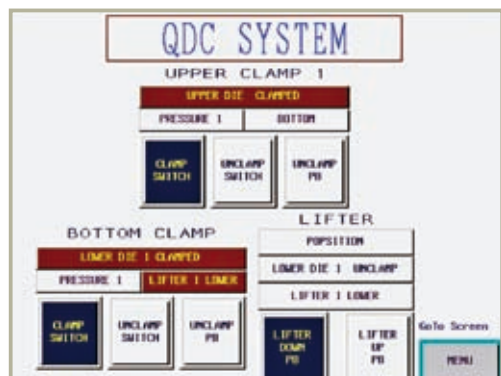
- Automatic monitoring and display of any abnormality, providing ease of maintenance
- Constant display of working status, implementing user-friendliness.

### Easy Access in Die Changing

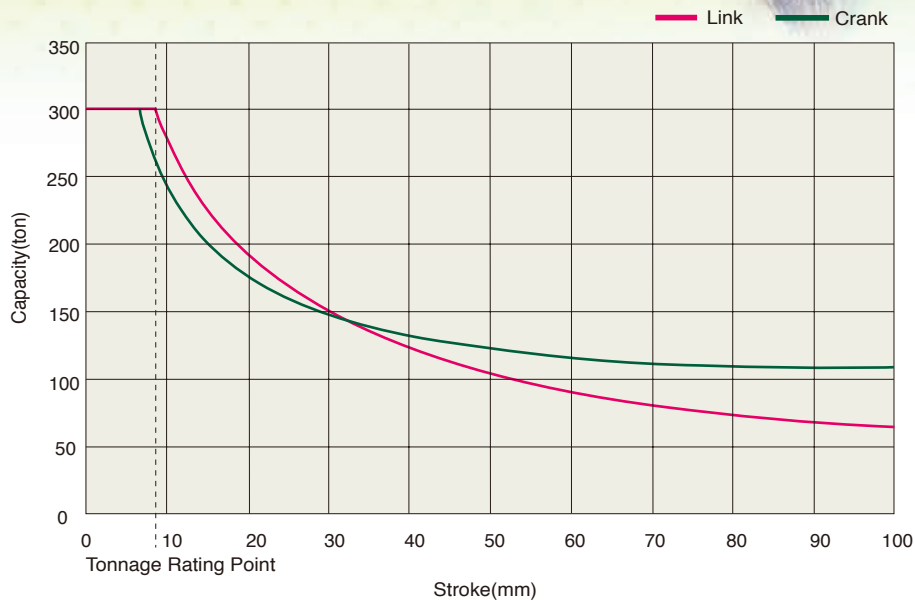
- Smooth facilitation of die setting and adjusting is achieved with fly-wheel brake and reversible motor.
- Digital indicator on column displaying accurate crank angle location.
- Safety is ensured with electronic inter-locking device of flywheel brake and the main motor.
- Uniquely designed die-height locking devise ensures consistent reliability.

### Quality Excellence Assured in Product

- Minimum scratches and surface markings.
- Lowest material consumption.
- Insignificant variances in product thickness and density.
- Wide array of product varieties; in addition to metal, it is also highly suitable for materials requiring definiteness (i.e. aluminum, stainless steel, etc.).



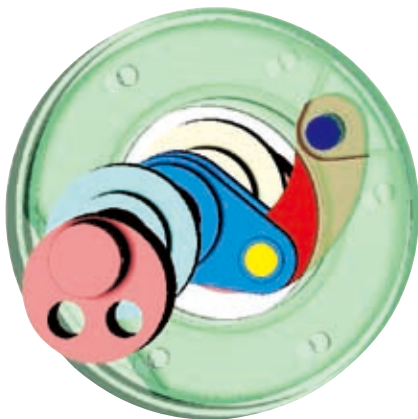
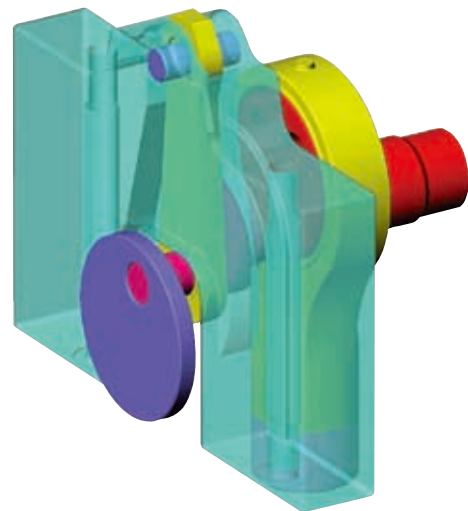
## Capacity curve



- Leading entry into tonnage rating point, slide moves in reduced speed, facilitating the reduction of production impact, avoiding die overheating and vibration.
- Extended die life and precise blanking are achieved.
- During drawing, flywheel is effectively utilized reducing required production time, suitable for various forms of product.

## Dynamic Balance System

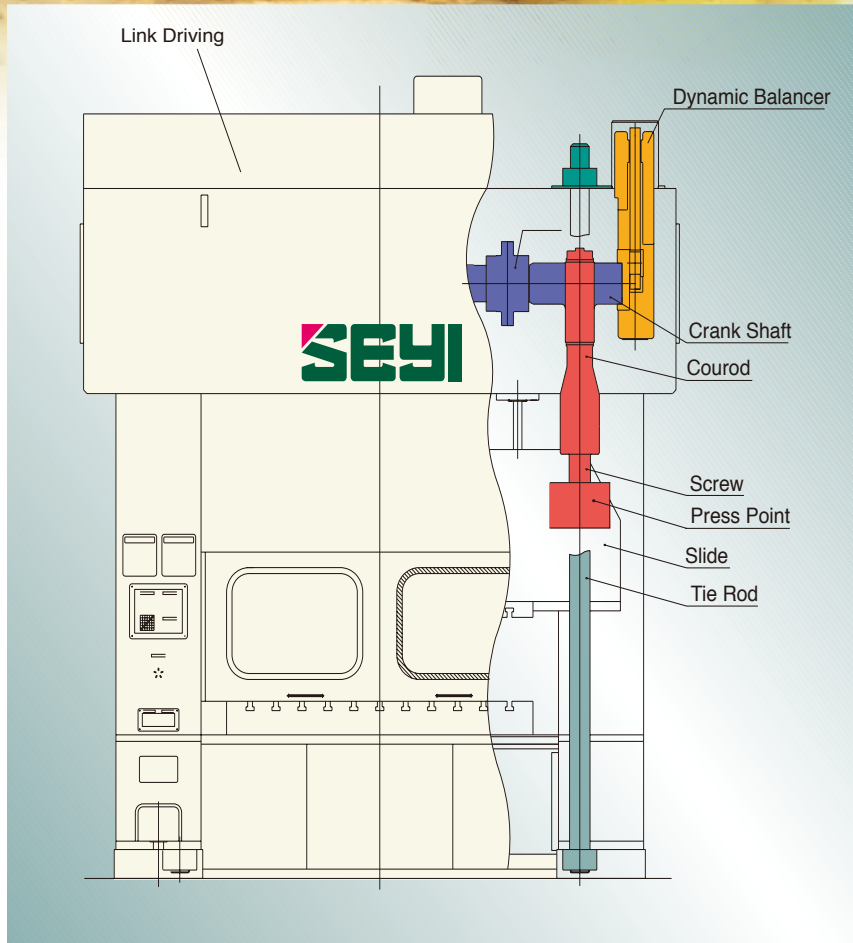
- SM2's unique Dynamic Balance System facilitates maintenance of overall structure balance during high-speed movements.
- With similar forming speed, SM2 achieves 50% plus in productivity in comparison to crank type presses.



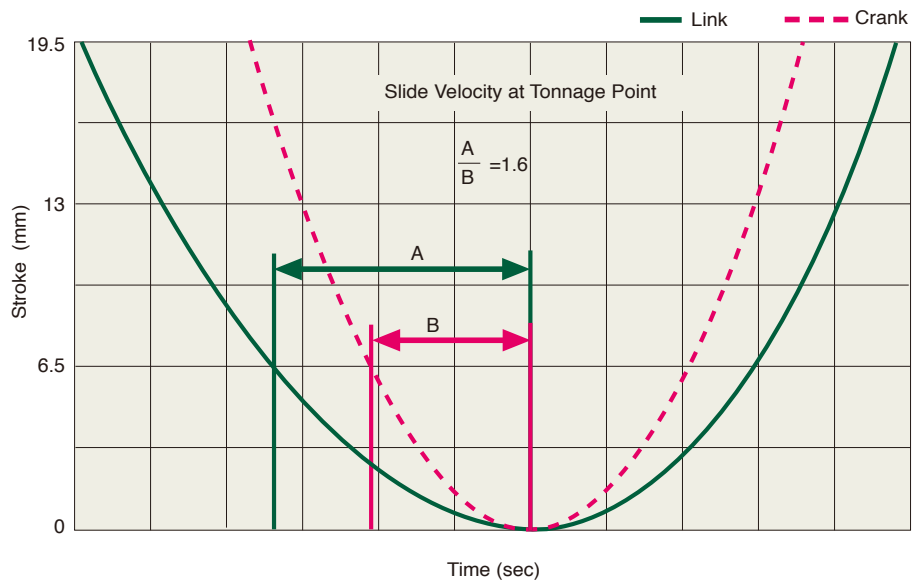
## Apt with Progressive Dense Metal Blanking Capability

- Under similar production needs and requirements, one unit of SM2 generates performance equivalent to two units of other ordinary straight-side presses. Furthermore, SM2 requires only half of the electricity, operation labors and facility area needed for crank type presses.

## Transmission Structure



## Press-Slide Motion



## Specification

Model		SM2-200	SM2-300	SM2-400	SM2-600	
Tonnage Capacity	tf	200	300	400	600	
Stroke Length	mm	200	200	200	250	
Stroke per Minute	S.P.M.	50~120	40~100	30~80	30~70	
Rated Tonnage Point	mm	6.5	6.5	6.5	10	
Die Height	mm	450	550	650	750	
Slide Adjustment	mm	100	100	100	150	
Slide Area (LR×FB)	1	mm	1500 x 900	1800 x 1000	2100 x 1100	2400 x 1250
	2		1800 x 900	2100 x 1000	2400 x 1100	2700 x 1250
	3		2100 x 900	2400 x 1000	2700 x 1100	3000 x 1250
Bolster Area (LR×FB)	1	mm	1500 x 1000	1800 x 1100	2100 x 1200	2400 x 1400
	2		1800 x 1000	2100 x 1100	2400 x 1200	2700 x 1400
	3		2100 x 1000	2400 x 1100	2700 x 1200	3000 x 1400
Bolster Thickness	mm	180	180	250	250	
Bolster Height (with Anti-Vibration Mount)	mm	1000	1150	1250	850(with Foundation)	
Upper Die Weight	kgf	1000	1500	3000	3000	
Main Motor	HP×P	40 x 4	50 x 4	60 x 4	100 x 4	
Window Opening (FB×UD)	mm	700 x 250	800 x 250	900 x 250	1050 x 250	
Total Height	mm	4410	5000	5500	6400(from FL)	
Air Pressure Required	kgf/cm <sup>2</sup>	5				

※ This specification is subject to change without notice.

## General Attachments

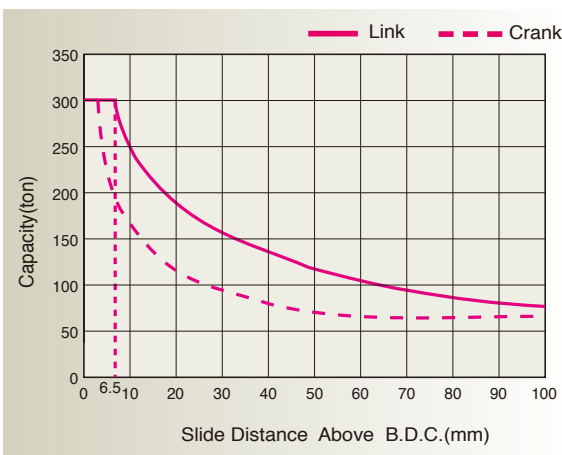
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| <ol style="list-style-type: none"> <li>1.Counter Balancer</li> <li>2.Dynamic Balance Device</li> <li>3.Hydraulic Overload Protector</li> <li>4.Motorized Slide Adjustment</li> <li>5.Programmable Cam Switches</li> <li>6.Display of SPM and Crank Angle</li> <li>7.Total Counter - 1 Set</li> <li>8.Preset Counter - 1 Set</li> <li>9.Maintenance Counter - 1 Set</li> <li>10.Misfeed Detector Socket - 2 Sets</li> <li>11.Air Outlet - 1 Set</li> <li>12.Air Ejector - 2 Set</li> <li>13.Main Motor with Inverter</li> <li>14.Flywheel Brake</li> </ol> | <ol style="list-style-type: none"> <li>15.Main Motor FWD/REV Switch</li> <li>16.Electrical Die Stick Release Device</li> <li>17.Automatic Circulation Lubrication System</li> <li>18.Upright Mount Cabinet Type Operation Console</li> <li>19.Touch Panel</li> <li>20.Wet-Type Clutch &amp; Brake</li> <li>21.Dual Check Safety Electrical Circuit</li> <li>22.Large and Lockable Emergency Stop Button - 5 Sets</li> <li>23.Die Lighting Device</li> </ol> | <ol style="list-style-type: none"> <li>24.Safety Fence</li> <li>25.Ladder</li> <li>26.Portable Operation Stand - 1 Set</li> <li>27.Safety Guard</li> <li>28.Safety Block</li> <li>29.Maintenance Tools Box</li> <li>30.Anti-Vibration Mount</li> </ol> |
|---|---|--|

## Optional Attachments

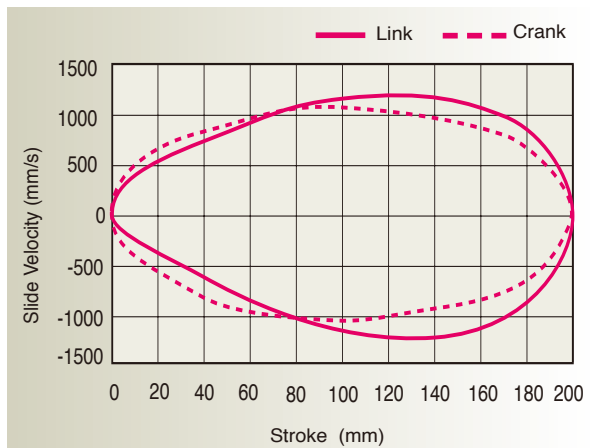
- 1.Quick Die Change System
- 2.Light Curtain
- 3.Load Monitor

## EX : SM2-300

### CAPACITY-STROKE CURVE DIAGRAM



### VELOCITY-STROKE CURVE DIAGRAM





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