



LINK MOTION HIGH SPEED STRAIGHT SIDE PRESSES

SM2-220 ~ 440TONS



Quality / Productivity / Safety

SM2

SM2-220 ~ 440TONS

**LINK MOTION HIGH SPEED STRAIGHT
SIDE PRESSES**

Features

High Precision & Rigid Structural Design

Precise 8 point gibs and high rigidity frame design enables maximum resistance to deflection for precision stamped parts.

Link Motion

Increases approach and return slide velocities while decreasing forming and releasing speeds.

Low Forming Speed

The slide reaches bottom dead center with a 60% slower velocity than a conventional press. This holds the material in the working portion of the stroke longer, greatly reducing springback of the material, providing better drawing and forming performance, extends tooling life, and decreases noise and vibration.

Unique Dynamic Balancing System

During continuous high-speed operation, greatly reduces noise and vibration.

Two-point Slide Connections

Extra wide distance between suspension points significantly increases resistance to eccentric loads.

Forced Lubrication System with Fault Monitoring

Forced recirculating lubrication reduces heat generation and wear on guide surfaces.

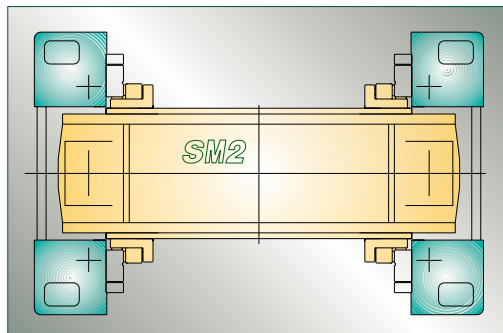
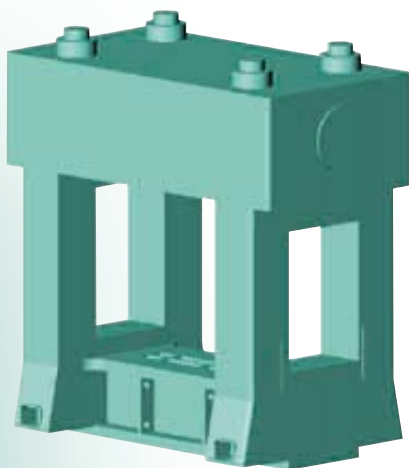
TouchScreen Monitor

Automatically monitors and displays possible fault conditions, allowing for simple operation and maintenance.

Extremely Small Total Clearance

Total clearance is less than JIS Class 1 standards





**High Rigidity Straight Side Frame
Extra-wide 8-point Gibs**

- Four piece frame secured by hydraulically stretched tie-rods and nuts.
- Welded, annealed, and stress relieved slide, bolster and frame designed to reduce deflection to less than 0.00087 in/ft.
- Extra wide 8-point gibs provide greater surface contact area assuring the accuracy and rigidity necessary for high precision parts.



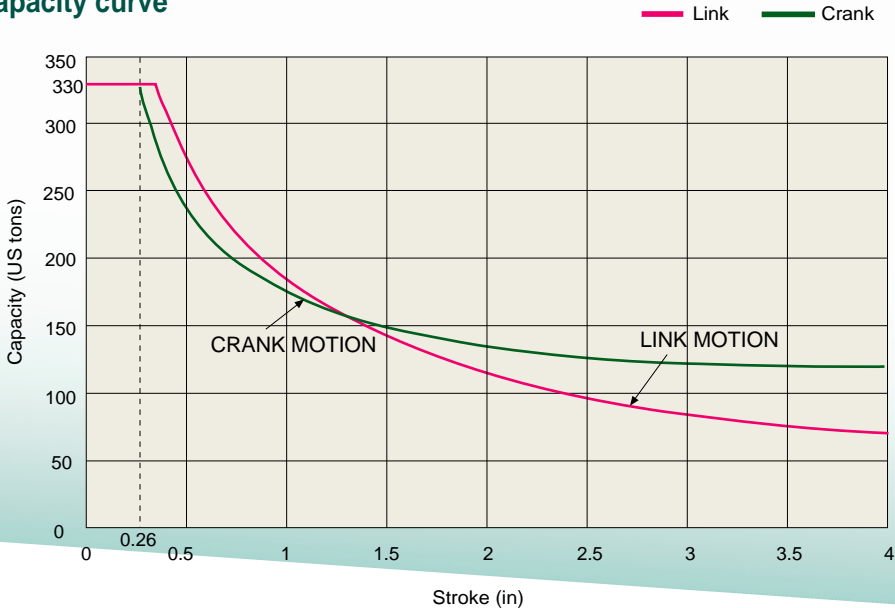
Available with Quality Peripherals

- Compact 3-in-1 NC Servo feeder/straightener/decoiler allows for high production rates.

Model		SLF2-40	SLF2-50	SLF2-60
Material Width	in	15.74	19.68	23.62
Material Thickness	in	0.02~0.18	0.02~0.18	0.02~0.18
Material Weight	lbs	6600	6600	6600



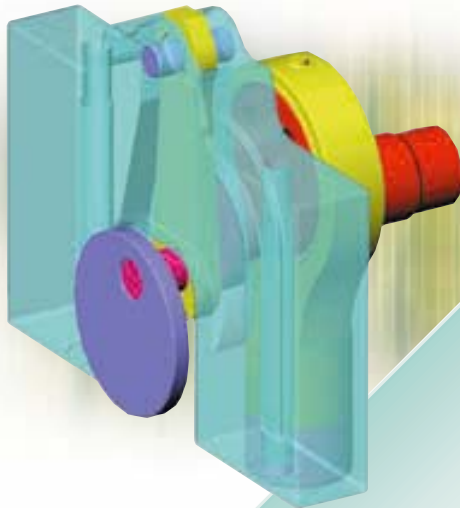
Capacity curve



- The slide velocity is reduced during the working portion of the stroke, which leads to significant reductions in vibration, impact on parts being formed and the overheating of the dies.
- Longer die life and extended maintenance intervals.
- During drawing applications, the flywheel energy is efficiently utilized leading to lowered production time requirements and increased variety of forming capabilities.

Dynamic Balancing System

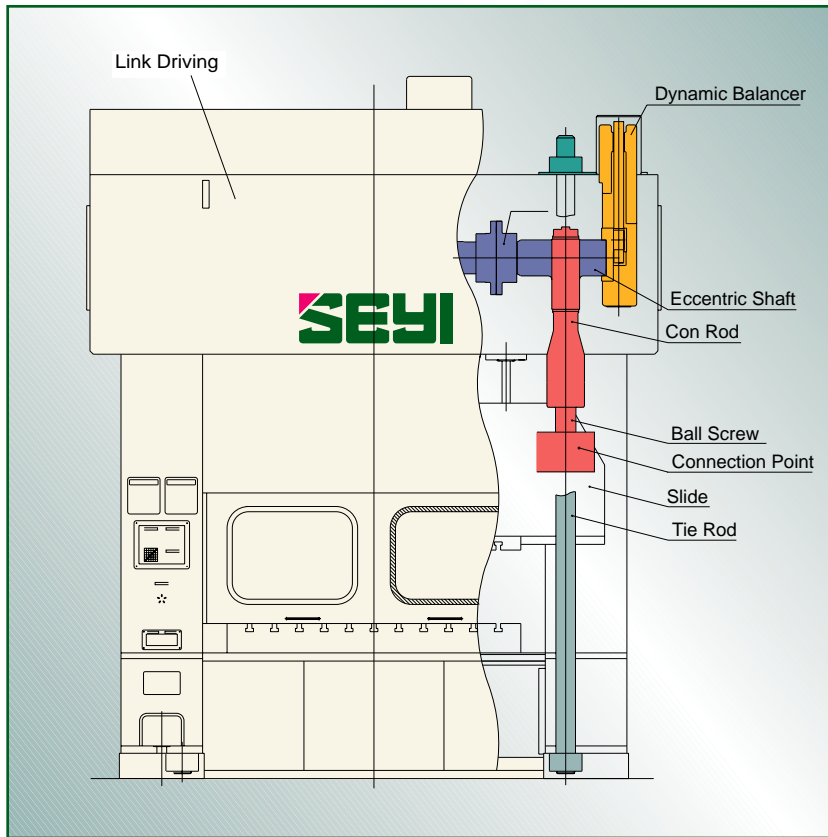
- The SM2's unique Dynamic Balancing System drastically reduces vibration and noise during high-speed operation.
- With similar forming speeds, the SM2 achieves a productivity increase of over 40% when compared to a standard crank press.



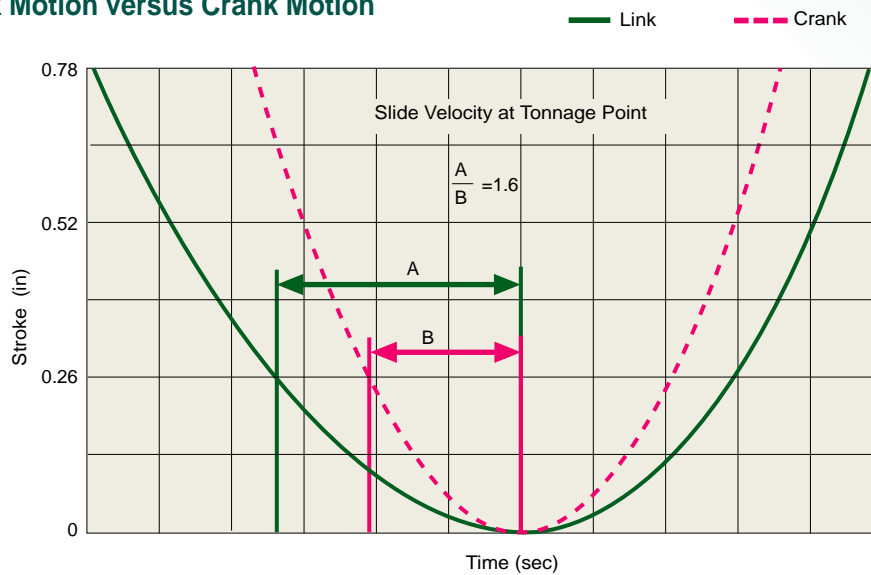
Progressive Stamping Benefits

- Used under similar production requirements, a single SM2 press can replace two standard straight side presses, reducing overhead costs in energy, labor, and required floor space.

Drive System Layout



Link Motion versus Crank Motion





Specification

Model		SM2-220	SM2-330	SM2-440
Capacity	US tons	220	330	440
Stroke Length	in	7.87	7.87	7.87
Strokes per Minute	spm	50 ~ 120	40 ~ 100	30 ~ 80
Tonnage Rating Point	in	0.26	0.26	0.26
Die Height	in	17.72	21.65	25.59
Slide Adjustment	in	3.94	3.94	3.94
Slide Area	1	59.06 x 35.43	70.87 x 39.37	82.68 x 43.31
	2	70.87 x 35.43	82.68 x 39.37	94.49 x 43.31
	3	82.68 x 35.43	94.49 x 39.37	106.30 x 43.31
Bolster Area	1	59.06 x 39.37	70.87 x 43.31	82.68 x 47.24
	2	70.87 x 39.37	82.68 x 43.31	94.49 x 47.24
	3	82.68 x 39.37	94.49 x 43.31	106.30 x 47.24
Bolster Thickness	in	7.09	7.87	10.63
Floor to Bolster Height	in	39.37	45.28	49.21
Upper Die Weight	lbs	2200	3300	6600
Main Motor	HP x P	40 x 4	50 x 4	60 x 4
Window Opening	in	27.56 x 9.84	31.50 x 9.84	35.43 x 9.84
Machine Height	in	175.20	196.85	216.54

Standard Attachments

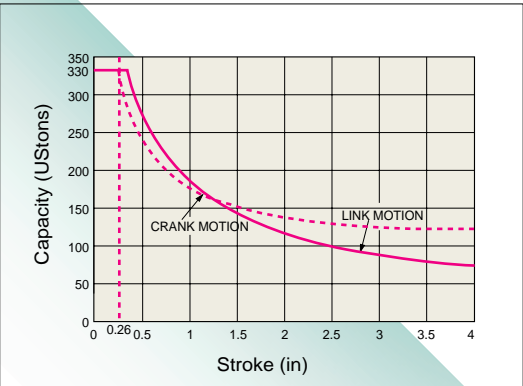
- 1. Variable speed main motor
- 2. Flywheel brake and main motor FWD/REV control
- 3. Combination wet clutch/brake
- 4. Motorized slide adjustment
- 5. Hydraulic overload protection
- 6. Automatic, recirculating lubrication system
- 7. Air counter balance system
- 8. PanelView touch screen monitor
- 9. OSHA, ANSI and CSA compliant dual PLC control system
- 10. 8 channels of die protection
- 11. 8 channels of PLS
- 12. Built in part and batch counters
- 13. Mis-feed detector
- 14. Air ejector and outlet
- 15. Floor mounted control console
- 16. Portable operator T-stand
- 17. Front and rear interlocked safety doors
- 18. Die area lighting
- 19. Maintenance tool kit
- 20. Isolation mounts

Optional Attachments

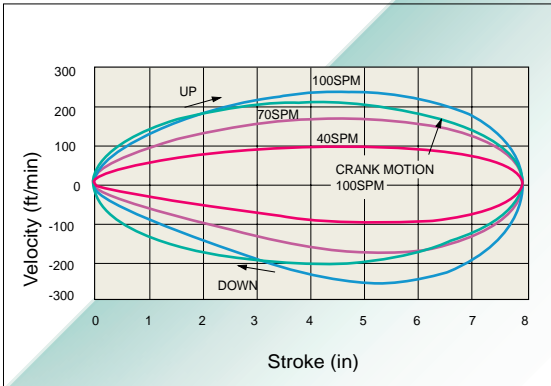
- 1. Quick die change system
- 2. Light curtains
- 3. Tonnage monitor
- 4. Custom control configurations

EX : SM2-300

CAPACITY-STROKE CURVE DIAGRAM



VELOCITY-STROKE CURVE DIAGRAM





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