

SNS · SLS SERIES

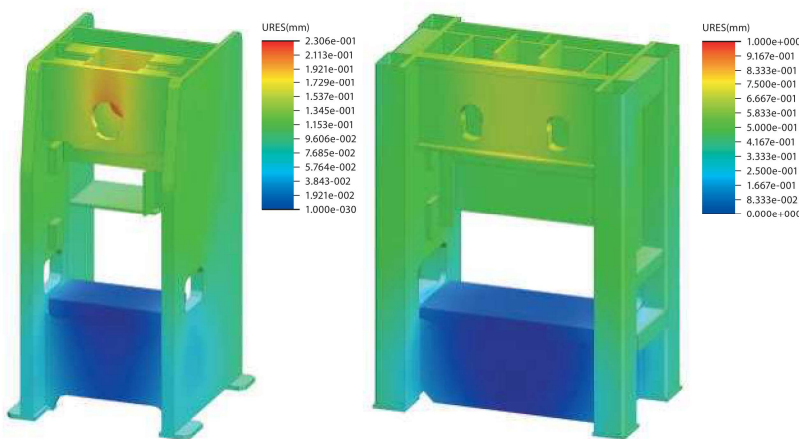
Solid Frame Crank Press · Solid Frame Crank Link Press
Unitized Frame / Monoblock Frame



TAIWAN
EXCELLENCE
2008

SNS1 . SLS1 × SNS2 . SLS2

DESIGNED FOR A VARIETY OF STAMPING APPLICATIONS.
EASY SET-UP AND OPERATION.



Excellent Frame Rigidity

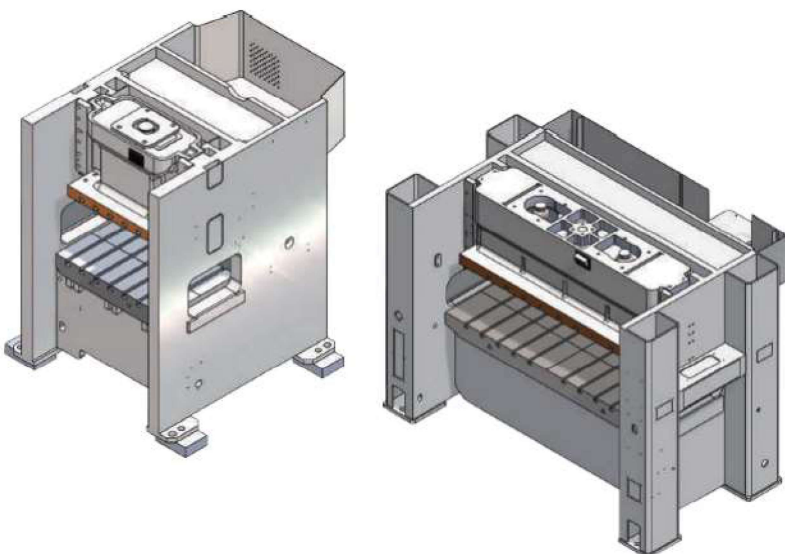
- 3D design, CAE analysis, excellent stiffness.
- Optimized symmetric structure, firmly supported stamping points.
- Minimized stamping noise and vibration.
- Stabilized parts precision and quality.
- Durable dynamic stability, resulting in longer die life.



- Unitized straight side frame, quick to ship, and no angular deflection of gap frame press.
- Good for precision or progressive dies, and longer die life.
- SNS1 · SLS1 from 800kN to 3000kN, SNS2 · SLS2 from 1600kN to 5000kN
- Easy to integrate with peripherals and automation.

Slide and Guides

- Optimized slide structure providing uniform stamping.
- Full-length, centered slide guides to support precision stamping, resistance to unbalanced loads, and long term dynamic press stability.



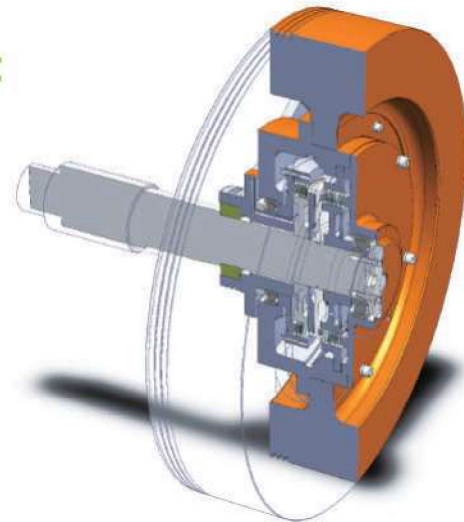
Hydraulic Overload Protector

- Quick response. Fast recovery.
- Proven reliability in die and press protection.



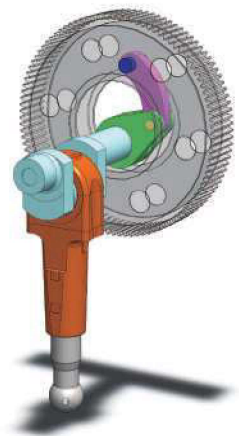
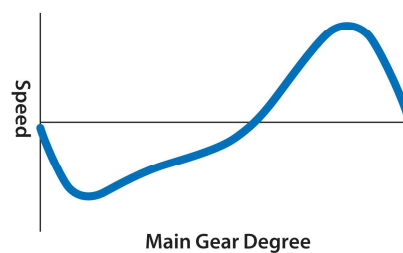
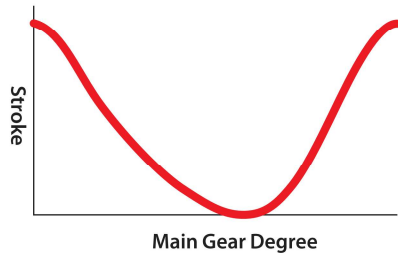
Wet-Type Clutch-and-Brake Unit

- Excellent energy storage, smooth actuation.
- High torque, low wear, quick response, environmentally friendly.
- Efficient power consumption and lubrication.



Link Motion Transmission

- Both of series SLS1 and SLS2 incorporate link motion transmission to let slide slow down during stamping stroke, speed up at off-duty stroke, and gain increased productivity.



Press Control Strength

- Easy-to-use control panel, friendly to operate.
- With job storage capacity - 99 sets.
- Embedded touchscreen for operation and monitoring.
- Abnormality displayed on monitor for quick troubleshooting.
- Feasible to add more control functions for specific applications.
- Quality components and circuit layout, reliable dual-valves for clutch/brake, branded PLC and sophisticated circuit to control.
- Comprehensive operation monitoring, to monitor crank stopping angle, slide's re-starting criterion in single-stroke mode, component abnormality, and so on.
- Satisfactory safety protection, to support light curtains, diversified safety guards (for gates or fences), CE directives or Type4 modules (Option), and so on.



* The appropriateness of different control systems depends on the business setting.

* To provide convenience for operators, the location of HMI touchscreen may be adjusted based on the height of presses.

Compliance with US-Europe-China safety guideline.

Easy to linked with kinds of ancillary automation equipments for mass production.

Quick Die Change (Option)





SNS1 · SLS1 SERIES

Standard Attachments

- Main Motor with Inverter
 - Automatic Grease Lubrication System
 - Spare Cam - 8 Sets
 - Combination Wet Clutch / Brake
 - Counter Balancer
 - Misfeed Socket - 4 Sets (2A, 2B)
 - Hydraulic Overload Protection
 - Die Height Indicator (Scale Unit: 0.1mm)
 - Air Ejector - 1 Set
 - Control System
 - SPM and Crank Angle Displays
 - Touch Panel Display with Press Running / Error Message
 - Total/Preset/Batch/Maintenance Counter
 - Programmable Cam Switches
 - Air Outlet - 1 Set
 - Motorized Slide Adjustment
 - Portable Operator Stand - 1 Set
 - Maintenance Tool Box
 - Anti-Repeat Safety Circuit
 - Main Motor FWD/REV Controller
-

Optional Attachments

- Light Curtains
- Die Lamp
- Bottom Dead Center Detector
- Anti Vibration Mounts
- Lamp Socket (1A)
- Quick Die Change System
- Tonnage Indicator
- Pneumatic Die Cushion
- Power Consumption Management
- Safety Block
- Adjustable Single Shot Lubrication



SNS2 · SLS2 SERIES

Standard Attachments

- Main Motor with Inverter
 - Counter Balancer
 - Misfeed Socket - 4 Sets (2A, 2B)
 - Combination Wet Clutch / Brake
 - Counter Balancer Manual Oiler
 - Air Ejector - 1 Set
 - Hydraulic Overload Protection
 - Die Height Indicator
(Scale Unit: 0.1mm)
 - Air Outlet - 1 Set
 - Control System
 - SPM and Crank Angle Displays
 - Programmable Cam Switches
 - Portable Operator Stand - 1 Set
 - Touch Panel Display with Press Running / Error Message
 - Anti-Repeat Safety Circuit
 - Maintenance Tool Box
 - Total/Preset/Batch/Maintenance Counter
 - Motorized Slide Adjustment
 - Main Moter FWD/REV Controller
 - Automatic Grease Lubrication System
 - Spare Cam - 8 Sets
-

Optional Attachments

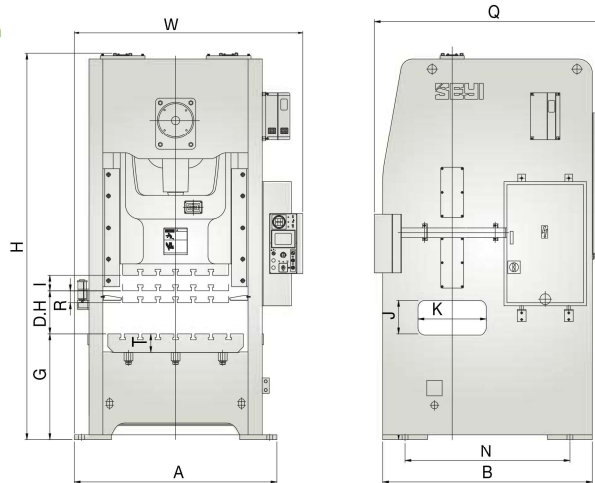
- Light Curtains
- Lamp Socket (1A)
- Knockout Device
- Anti Vibration Mounts
- Booster
- Adjustable Single Shot Lubrication
- Tonnage Indicator
- Flywheel Brake
- Quick Die Change System
- Safety Block
- Pneumatic Die Cushion
- Power Consumption Management
- Die Lamp
- Bottom Dead Center Detector



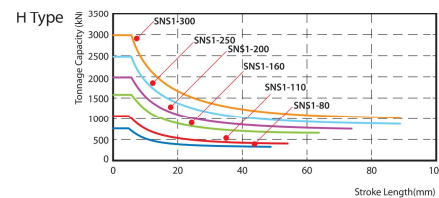
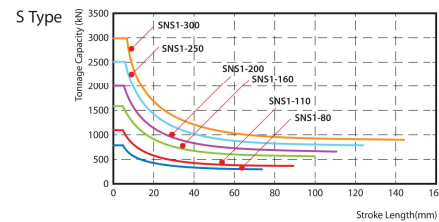
SNS1 · SLS1 SERIES

Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300		SLS1-80		SLS1-110		SLS1-160		SLS1-200		SLS1-250		SLS1-300		
	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	
Capacity	800		1100		1600		2000		2500		3000		800		1100		1600		2000		2500		3000		
Stroke Length (l)	150	100	180	110	200	130	220	150	250	180	280	180	150	100	180	110	200	130	220	150	250	180	280	180	
Strokes per Minute	40~75		55~125		35~65		50~110		30~55		40~95		25~45		35~80		22~40		30~60		20~35		25~50		
Tonnage Rating Point	5		5		6		6		6		6		5		5		6		6		6		6		
Die Height (D.H)	330	300	350	320	400	360	450	400	450	400	500	400	330	300	350	320	400	360	450	400	450	400	500	400	
Slide Adjustment (R)	80		90		100		110		120		120		80		90		100		110		120		120		
Slide Area (LRxFB)	700X460		800X520		900X580		1000X650		1100X720		1150X800		700X460		800X520		900X580		1000X650		1100X720		1150X800		
Diameter of Shank Hole	ø50.8		ø50.8		ø65		ø65		ø65		ø65		ø50.8		ø50.8		ø65		ø65		ø65		ø65		
Bolster Area (LRxFB)	900X680	900X460	1000X680	1000X520	1150X760	1150X600	1250X840	1250X680	1350X900	1350X750	1400X1050	1400X850	900X680	900X460	1000X680	1000X520	1150X760	1150X600	1250X840	1250X680	1350X900	1350X750	1400X1050	1400X850	
Bolster Thickness (T)	140		155		165		180		180		200		140		155		165		180		180		200		
Bolster Height (W/O Mounts) (G)	900		900		940		900		1020		1000		900		900		940		900		1020		1000		
Main Motor (Fixed Speed + Inverter)	kWxP 7.5X4		11X4		15X4		18.5X4		22X4		30X4		kWxP 7.5X4		11X4		15X4		18.5X4		22X4		30X4		
Slide Adjustment Motor	kWxP 0.4X4		0.4X4		0.7X4		0.7X4		0.7X4		1.5X4		kWxP 0.4X4		0.4X4		0.7X4		0.7X4		0.7X4		1.5X4		
Window Opening (KxJ)	440X280	370X250	500X300	420X270	560X350	470X310	620X400	520X350	680X400	570X350	760X450	650X350	440X280	370X250	500X300	420X270	560X350	470X310	620X400	520X350	680X400	570X350	760X450	650X350	
Foot Print (AxB)	1430X1470	1430X1420	1560X1600	1560X1550	1720X1780	1720X1730	1870X1980	1870X1930	1990X2150	1990X2100	2070X2297	2070X2247	1430X1470	1430X1420	1560X1600	1560X1550	1720X1780	1720X1730	1870X1980	1870X1930	1990X2150	1990X2100	2070X2297	2070X2247	
Floor Space Required (WxO)	1630X1740		1765X1875		1905X2055		2055X2245		2175X2500		2255X2580		1630X1740		1765X1875		1905X2055		2055X2245		2175X2500		2255X2580		
Total Height (W/O Mounts) (H)	2765		3000		3320		3280		3740		3720		2765		3000		3320		3280		3740		3720		
Max. Upper Die Weight	300		400		400		800		1000		1250		300		400		400		800		1000		1250		
Required Air Pressure	MPa 0.5		0.5		0.5		0.5		0.5		0.5		MPa 0.5		0.5		0.5		0.5		0.5		0.5		
Die Cushion (Option)																									
Capacity	kN	60	—	60	—	80	—	100	—	100	—	140	—	60	—	60	—	80	—	100	—	100	—	140	—
Stroke Length	mm	95	—	95	—	110	—	130	—	130	—	140	—	95	—	95	—	110	—	130	—	130	—	140	—
Cushion Pad Area (LRxFB)	mm	480X340	—	480X340	—	560X370	—	700X450	—	700X450	—	700X450	—	480X340	—	480X340	—	560X370	—	700X450	—	700X450	—	700X450	—

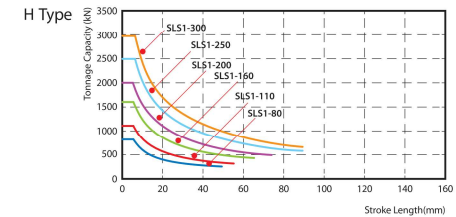
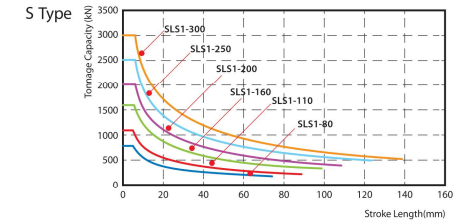
SNS1 · SLS1 Machine Dimension



SNS1 Stroke & Pressure Curve



SLS1 Stroke & Pressure Curve

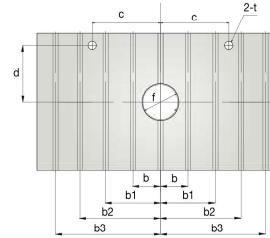


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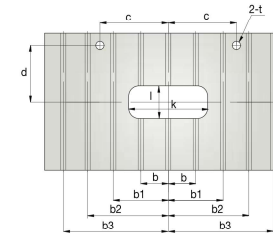


Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80	SLS1-110	SLS1-110	SLS1-110	SLS1-160	SLS1-160	SLS1-200	SLS1-200	SLS1-250	SLS1-250	SLS1-300	SLS1-300
Type	S	H	S	H	S	H	S	H	S	H	S	H
b	150		150		150		150		150		150	
b1	300		300		300		300		300		300	
b2	—		—		450		450		450		450	
b3	—		—		—		—		—		600	
c	200		200		200		200		250		250	
f	ø180		ø200		ø220		ø250		ø270		ø270	
d	315	180	315	220	340	260	380	300	410	335	450	335
g	140		140		150		150		150		150	
h	90		90		100		100		100		100	
i(LRXFB)	4X4		4X4		4X4		4X5		4X5		4X5	
j	ø32		ø32		ø32		ø32		ø32		ø32	
k	360		400		440		480		540		540	
l	180		200		220		240		270		270	
n	28		28		28		28		28		28	
p	30		30		30		30		30		30	
q	20		20		20		20		20		20	
s	48		48		48		48		48		48	
t	ø30		ø30		ø30		ø30		ø30		ø30	
u	75		75		75		75		75		75	
v	45		45		50		100		100		100	
w	ø40 h7		ø70 h7		ø70 h7		ø70 h7		ø70 h7		ø70 h7	

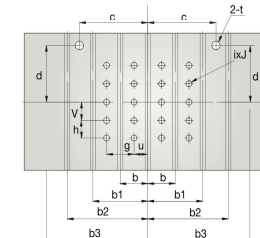
Surface of Bolster-Round Type (Standard)



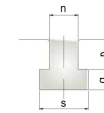
Surface of Bolster-Rectangular Type



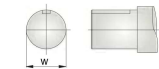
Surface of Bolster-Die Cushion



Size of T-Slot

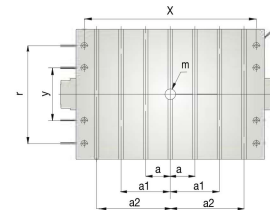


Surface of Take-Off Shaft (Option)

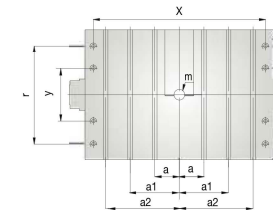


Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80	SLS1-110	SLS1-110	SLS1-110	SLS1-160	SLS1-160	SLS1-200	SLS1-200	SLS1-250	SLS1-250	SLS1-300	SLS1-300
Type	S	H	S	H	S	H	S	H	S	H	S	H
a	150		150		150		150		150		150	
a1	240		300		300		300		300		300	
a2	—		—		—		—		440		450	
m	ø50.8		ø50.8		ø65		ø65		ø65		ø65	
n	28		28		28		28		28		28	
p	30		30		30		30		30		30	
q	20		20		20		20		20		20	
s	48		48		48		48		48		48	
x	600		700		800		900		1000		1050	
r	360		420		480		550		600		600	
y	240		260		280		280		320		320	
z	8-ø18		8-ø23		8-ø23		8-ø23		8-ø23		8-ø23	

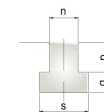
Without Shank Holder



With Shank Holder



Size of T-Slot



Area of Slide

(SNS1/SLS1-80, 110 With Shank Holder, 160~300 Without Shank Holder)

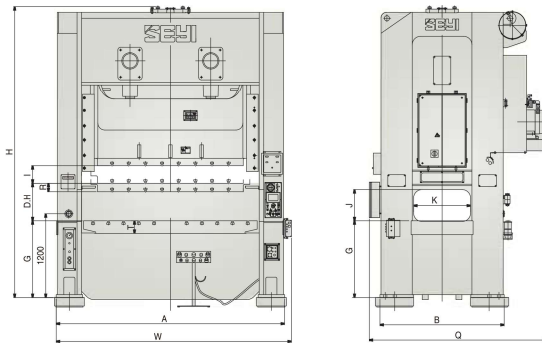
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SNS2 · SLS2 SERIES

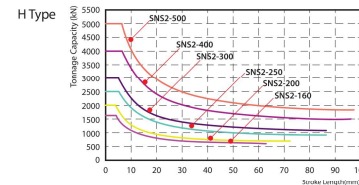
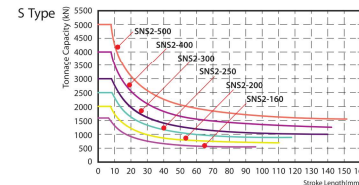
Model	SNS2-160		SNS2-200		SNS2-250		SNS2-300		SNS2-400		SNS2-500		SLS2-160		SLS2-200		SLS2-250		SLS2-300		SLS2-400		SLS2-500		
Type	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	
Capacity	kN 1600		2000		2500		3000		4000		5000		1600		2000		2500		3000		4000		5000		
Stroke Length (l)	mm 200	130	230	150	250	180	280	180	300	200	300	200	200	130	230	150	250	150	280	150	300	200	300	200	
Strokes per Minute	SPM 30-55	40-85	25-45	35-70	22-40	30-60	20-40	25-50	20-40	25-50	20-40	25-50	30-55	40-85	25-45	35-70	22-40	30-55	20-35	25-45	15-30	25-40	15-30	25-40	
Tonnage Rating Point	mm 6	4	7	4	7	5	7	5	7	6	7	6	6	5	7	5	7	6	7	7	7	7	7	7	
Die Height (D.H)	mm 450	400	500	450	550	450	550	450	600	450	600	450	450	400	500	450	550	450	550	450	600	450	600	450	
Slide Adjustment (R)	mm 100		100		120		120		120		120		100		100		120		120		120		120		
Slide Area (LRxFB)	mm	1560X650	1850X750	1	2200X820	1	2200X900	1	2200X1000	1	2200X1100	1	1560X650	1850X750	1	2200X820	1	2200X900	1	2200X1000	1	2200X1100	1	2200X1100	
					2	2500X820	2	2500X900	2	2500X1000	2	2500X1100				2	2500X1100								
					3	2800X820	3	2800X900	3	2800X1000	3	2800X1100				3	2800X1100								
					4	3100X820	4	3100X900	4	3100X1000	4	3100X1100				4	3100X1100								
Diameter of Shank Hole	mm	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3	ø51X3		
Bolster Area (LRxFB)	mm	1850X760	2200X840	1	2500X920	1	2500X1000	1	2500X1100	1	2500X1200	1	1850X760	2200X840	1	2500X920	1	2500X1000	1	2500X1100	1	2500X1200	1	2500X1200	
					2	2800X920	2	2800X1000	2	2800X1100	2	2800X1200				2	2800X1200								
					3	3100X920	3	3100X1000	3	3100X1100	3	3100X1200				3	3100X1200								
					4	3400X920	4	3400X1000	4	3400X1100	4	3400X1200				4	3400X1200								
Bolster Thickness (T)	mm	160	170	180	200	200	200	200	200	200	200	160	170	180	200	200	200	200	200	200	200	200	200		
Bolster Height (W/O Mounts) (G)	mm	950	1000	1100	1150	1,2 1100	1,2 1150	1,2 1150	1,2 1250	1,2 1250	1,2 1250	1,2 1250	950	1000	1100	1150	1,2 1100	1,2 1150	1,2 1150	1,2 1250	1,2 1250	1,2 1250	1,2 1250	1,2 1250	
Main Motor (Fixed Speed + Inverter)	kWxP	15X4	18.5X4	22X4	30X4	37X4	45X4	15X4	18.5X4	22X4	30X4	37X4	45X4	15X4	18.5X4	22X4	30X4	37X4	45X4	15X4	18.5X4	22X4	30X4	37X4	45X4
Slide Adjustment Motor	kWxP	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	1.5X4	
Window Opening (K)	mm	660	740	820	900	1000	1100	1100	1100	1100	1100	660	740	820	900	900	1000	1000	1000	1000	1000	1000	1000	1000	
Window Opening (J)	mm	400	320	450	350	460	350	500	350	550	400	550	400	400	320	450	350	460	350	500	350	550	400	550	400
Foot Print (AxB)	mm	2600X1430	2930X1650	1	3290X1790	1	3390X1870	1	3410X2070	1	3670X2170	1	2600X1560	2930X1650	1	3290X1850	1	3390X1930	1	3410X2070	1	3670X2170	1	3670X2170	
					2	3690X1790	2	3690X1870	2	3710X2070	2	3970X2170				2	3970X2170								
					3	4000X1870	3	4010X2070	3	4050X2170	3	4050X2170				3	4050X2170								
					4	4300X1870	4	4310X2070	4	4350X2170	4	4350X2170				4	4350X2170								
Floor Space Required (WxQ)	mm	2705X2345	3045X2490	1	3390X2555	1	3490X2665	1	3545X2955	1	3800X3210	1	2675X2405	3005X2495	1	3365X2695	1	3490X2780	1	3485X3160	1	3745X3265	1	3745X3265	
					2	3790X2555	2	3790X2665	2	3845X2955	2	4100X3210				2	4100X3210								
					3	4100X2575	3	4145X2955	3	4145X2955	3	4180X3210				3	4180X3210								
					4	4400X2575	4	4445X2955	4	4480X3210	4	4480X3210				4	4480X3210								
Total Height (W/O Mounts) (H)	mm	3510	3450	3885	3830	1	4180	1	4050	1,2	4505	1,2	4355	1,2	4820	1,2	4565	1,2	5020	1,2	4770	1,2	5105	1,2	4955
						2	4230	2	4100	2	4620	2	4470	2	4865	2	4715	2	5020	2	4770	2	5105	2	4955
Max. Upper Die Weight	kg	1400	2000	1	2200	1,2	2800	1,2	3000	1,2	3200	1,2	3200	1,2	3200	1,2	3200	1,2	3000	1,2	3000	1,2	3200	1,2	3200
Required Air Pressure	MPa	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
Die Cushion (Option)																									
Capacity	kN	80X2	100X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	80X2	100X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	140X2	
Stroke Length	mm	110	130	140	140	140	140	140	140	140	140	110	130	140	140	140	140	140	140	140	140	140	140	140	
Cushion Pad Area (LRxFB)	mm	560X370X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	560X370X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	700X450X2	

SNS2 · SLS2 Machine Dimension

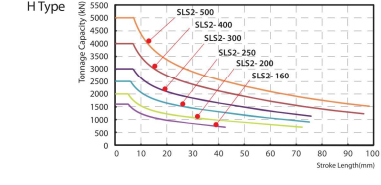
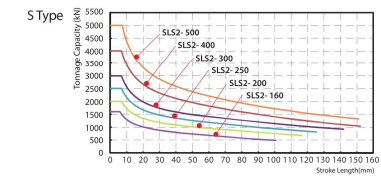


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SNS2 Stroke & Pressure Curve



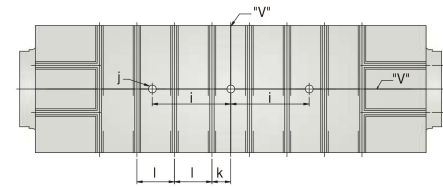
SLS2 Stroke & Pressure Curve



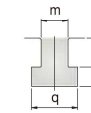
Model	SNSZ-160		SNSZ-200		SNSZ-250		SNSZ-300		SNSZ-400		SNSZ-500	
	SLS2-160	SLS2-200	SLS2-200	SLS2-250	SLS2-250	SLS2-300	SLS2-300	SLS2-400	SLS2-400	SLS2-500	SLS2-500	
Type	S	H	S	H	S	H	S	H	S	H	S	H
a	200		215		235		235		235		235	
b	200		220		220		220		220		220	
c	150		160		180		1,2 3,4	180 400	1,2 3,4	180 400	1,2 3,4	180 400
d	100		110		110		110		110		110	
e	100		100		100		100		100		100	
f(LRXFB)	6X4X2		7X5X2		7X5X2		7X5X2		7X5X2		7X5X2	
g	ø32		ø32		ø32		ø32		ø32		ø32	
h	400		490		510		1,2 3,4	510 730	1,2 3,4	510 730	1,2 3,4	510 730
i	400		450		450		1,2 3,4	450 900	1,2 3,4	582 900	1,2 3,4	679
j	ø51 H7		ø51 H7		ø51 H7		ø51 H7		ø51 H7		ø51 H7	
k	200		110		120		120		120		120	
l	200		220		240		240		240		240	
m	28		28		28		28		28		28	
n	30		30		30		30		30		30	
p	20		20		20		20		20		20	
q	48		48		48		48		48		48	
w1	125		140		150		150		150		150	

SNS2/SLS2 Dimensions of slide & bolster

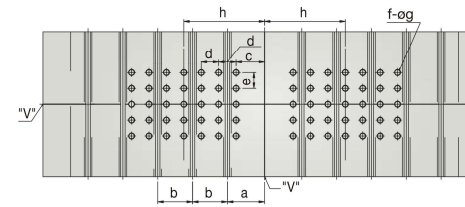
Surface of Slide



Size of T-Slot

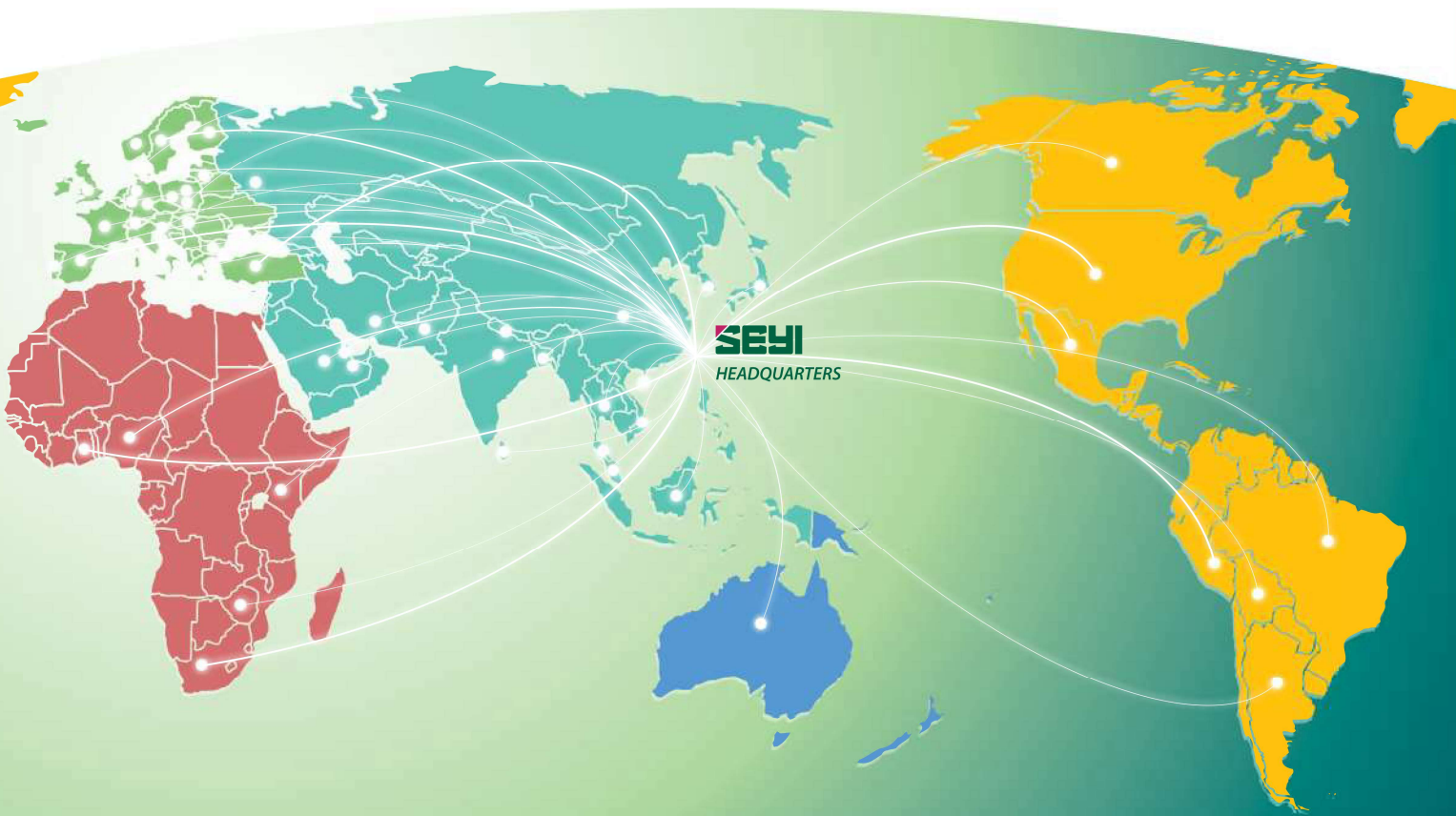
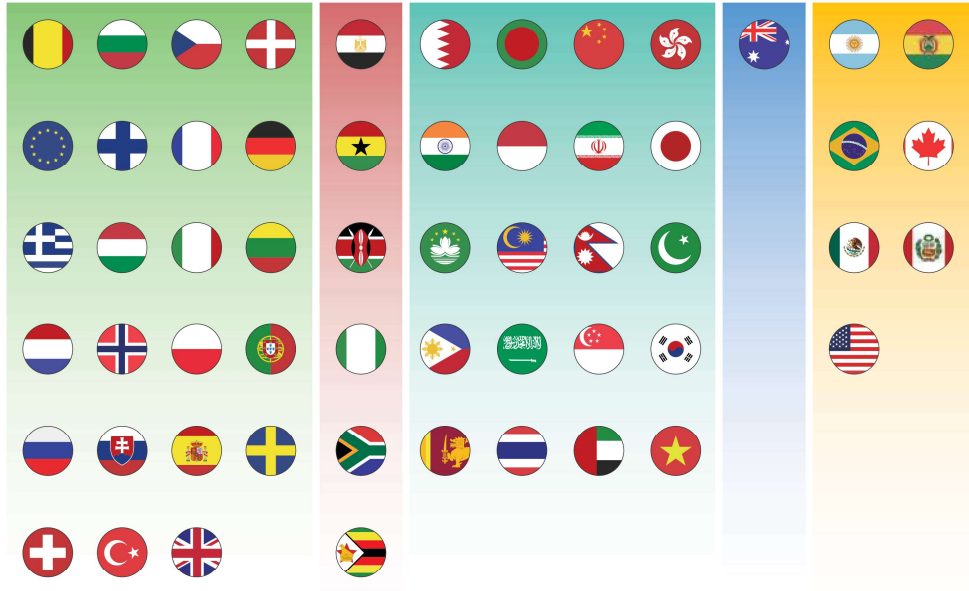


Surface of Bolster



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