

# SNS1 · SLS1 SERIES

## Standard Attachments

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

## Optional Attachments

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

# 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
  - Touch Panel Display with Press Running / Error Message
  - Total/Preset/Batch/Maintenance Counter
- Programmable Cam Switches
- Maintenance Tool Box
- Motorized Slide Adjustment
- Portable Operator Stand - 1 Set
- Anti-Repeat Safety Circuit
- Automatic Grease Lubrication System
- Main Moter FWD/REV Controller
- Spare Cam - 8 Sets

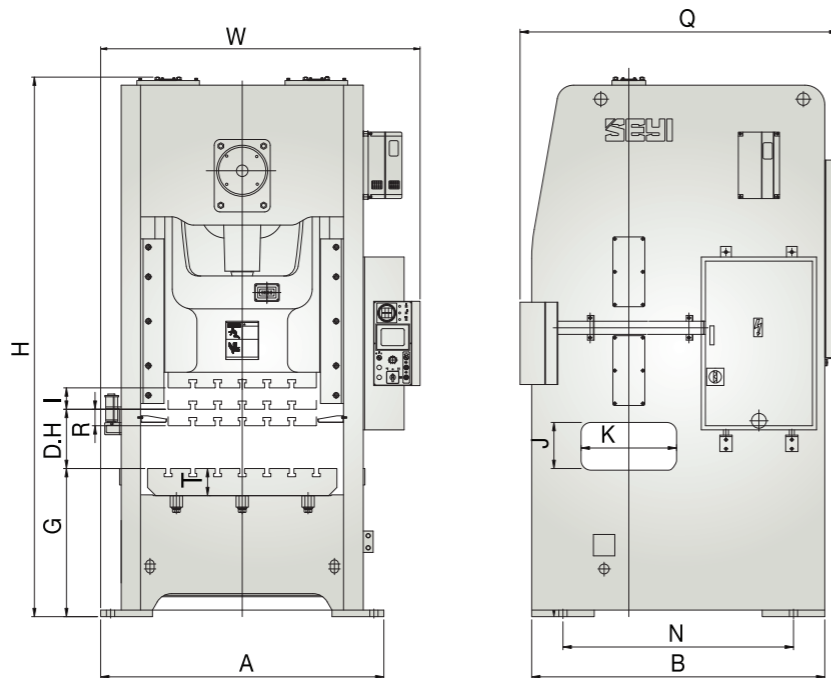
## Optional Attachments

- 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

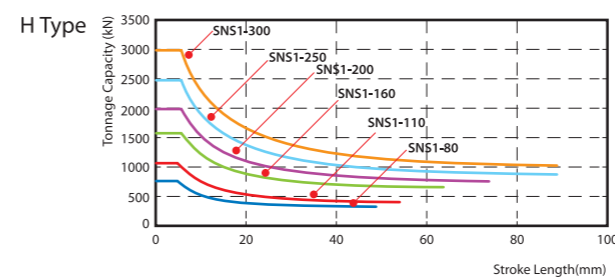
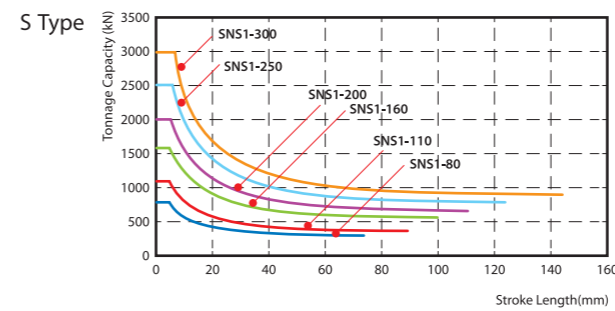
# SNS1 · SLS1 SERIES

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	40~75	55~110	35~65	50~100	30~55	40~85	25~45	35~70	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		1040		1020		900		900		940		900		
Main Motor (Fixed Speed + Inverter)	7.5X4		11X4		15X4		18.5X4		22X4		30X4		7.5X4		11X4		15X4		18.5X4		22X4		30X4		
Slide Adjustment Motor	0.4X4		0.4X4		0.7X4		0.7X4		0.7X4		1.5X4		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 (WxQ)	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	0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		
<b>Die Cushion (Option)</b>																									
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	—

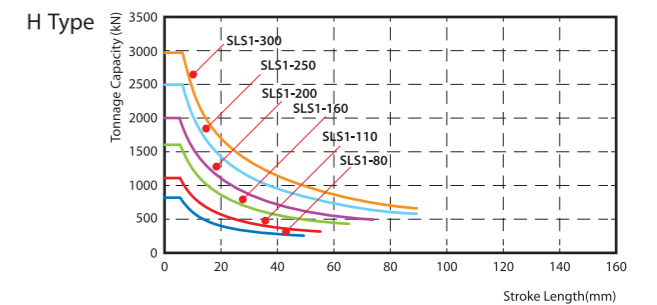
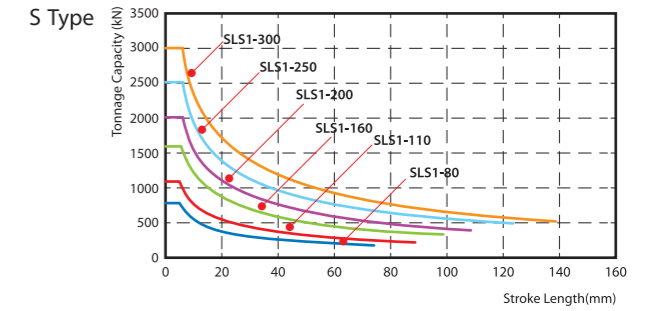
## SNS1 · SLS1 Machine Dimension



## SNS1 Stroke & Pressure Curve



## SLS1 Stroke & Pressure Curve



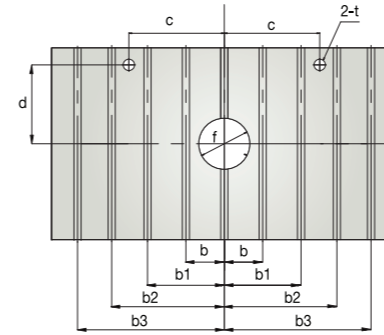
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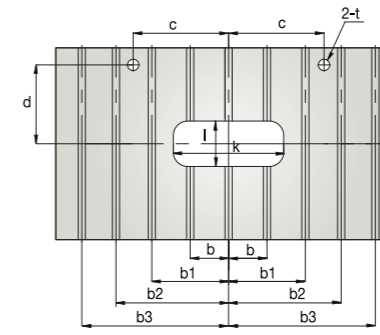
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Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80		SLS1-110		SLS1-160		SLS1-200		SLS1-250		SLS1-300	
Type	S	H	S	H	S	H	S	H	S	H	S	H
b	150		150		150		150		150		150	
b1	300		300		300		300		300		300	
b2	—		—		450		450		450		450	
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	

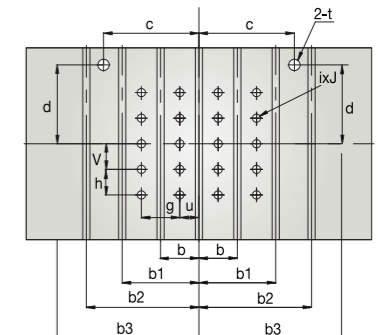
Surface of Bolster-Round Type (Standard)



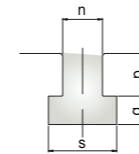
Surface of Bolster-Rectangular Type



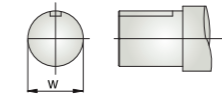
Surface of Bolster-Die Cushion



Size of T-Slot

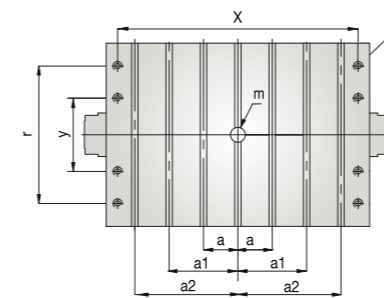


Surface of Take-Off Shaft (Option)

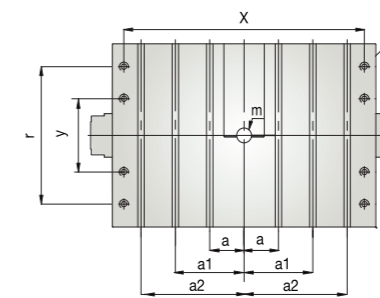


Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80		SLS1-110		SLS1-160		SLS1-200		SLS1-250		SLS1-300	
Type	S	H	S	H	S	H	S	H	S	H	S	H
a	150		150		150		150		150		150	
a1	240		300		300		300		300		300	
a2	—		—		—		—		440		450	
m	ø50.8		ø50.8		ø65		ø65		ø65		ø65	
n	28		28		28		28		28		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	

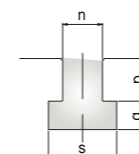
Without Shank Holder



With Shank Holder



Size of T-Slot



Area of Slide

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

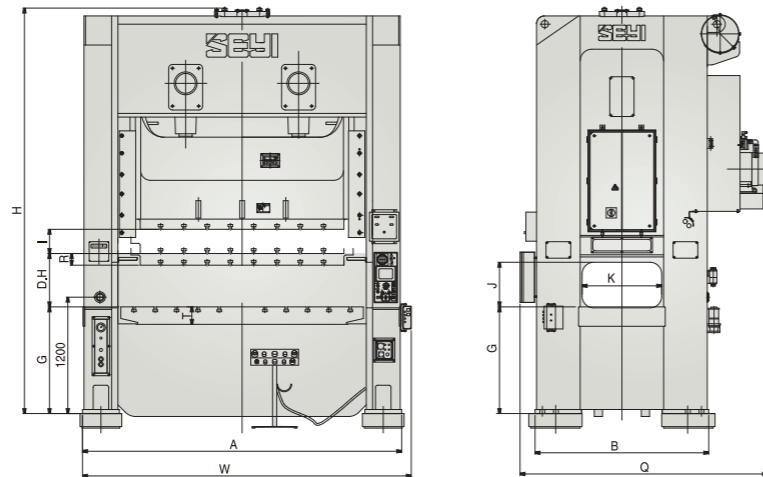
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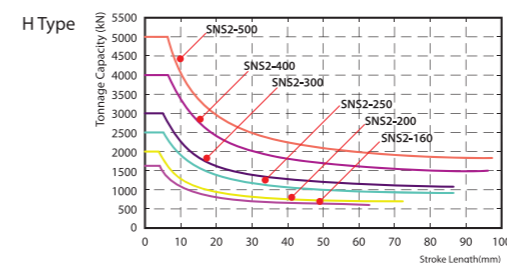
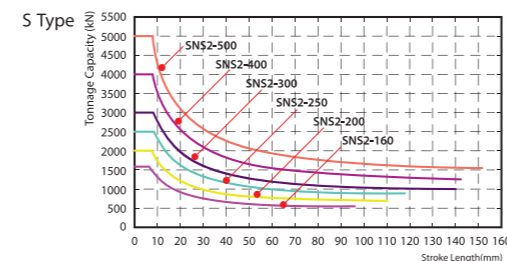
# SNS2 · SLS2 SERIES

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																	
	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	1600		2000		2500		3000		4000		5000		1600		2000		2500		3000		4000		5000																	
Stroke Length (l)	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	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	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)	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)	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	2200X820		1		2200X900		1		2200X1000		1		2200X1100						
							2500X820		2		2500X900		2		2500X1000		2		2500X1100			1560X650	1850X750	2		2500X900		2		2500X1000		2		2500X1100						
							3100X820		3		3100X900		3		3100X1000		3		3100X1100					3		3100X1000		3		3100X1100										
							3400X820		4		3400X900		4		3400X1000		4		3400X1100					4		3400X1000		4		3400X1100										
Diameter of Shank Hole	mm		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	2500X920		1		2500X1000		1		2500X1100		1		2500X1200						
							2800X920		2		2800X1000		2		2800X1100		2		2800X1200			1850X760	2200X840	2		2800X1000		2		2800X1100		2		2800X1200						
							3100X920		3		3100X1000		3		3100X1100		3		3100X1200					3		3100X1000		3		3100X1100		3		3100X1200						
							3400X920		4		3400X1000		4		3400X1100		4		3400X1200					4		3400X1000		4		3400X1100		4		3400X1200						
Bolster Thickness (T)	mm		160		170		180		200		200		160		170		180		200		200		200																	
Bolster Height (W/O Mounts) (G)	mm	950		1000		1	1100		1,2		1150		1250		1250		1	1100		1,2		1150		1250		1250														
							2		1150		3,4		1250		950			1000		2		1150		3,4		1250		1250												
Main Motor (Fixed Speed + Inverter)	kWxP		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															
Window Opening (K)	mm		660		740		820		900		1000		1100		660		740		820		900		1000		1100															
Window Opening (J)	mm		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	3290X1850		1		3390X1930		1		3410X2070		1		3670X2170						
							2		3690X1790		2		3710X2070		2		3970X2170		2600X1560	2930X1650		2		3690X1850		2		3710X2070		2		3970X2170								
							3		4000X1870		3		4010X2070		3		4050X2170					3		4000X1930		3		4010X2070		3		4050X2170								
							4		4300X1870		4		4310X2070		4		4350X2170					4		4300X1930		4		4310X2070		4		4350X2170								
Floor Space Required (WxQ)	mm	2705X2345		3045X2490		1	3390X2555		1		3490X2665		1		3545X2955		1		3800X3210		1	3365X2695		1		3490X2780		1		3485X3160		1		3745X3265						
							2		3790X2555		2		3845X2955		2		4100X3210		2675X2405	3005X2495		2		3765X2695		2		3765X2780		2		3785X3160		2		4075X3265				
							3		4100X2575		3		4145X2955		3		4180X3210					3		4075X2805		3		4085X3160		3		4375X3265								
							4		4400X2575		4		4445X2955		4		4480X3210					4		4375X2805		4		4385X3160		4		4675X3265								
Total Height (W/O Mounts) (H)	mm	3510		3450		3885		3830		1	4180		1		4050		1,2		4505		1,2		4355		1,2		4910		1,2		4770		1,2		5105		1,2		4955	
											2		4230		2		4100		3,4		4620		3,4		4470		3,4		4865		3,4		4715		3,4		5020		3,4	
Max. Upper Die Weight	kg	1400		2000		1	2200		1,2		2800		1,2		3000		1,2		3200		1	2200		1,2		2800		1,2		3000		1,2		3200						
							2		2500		3,4		3000		3,4		3200		3,4			3400		1400	2000	2		2500		3,4		3000		3,4		3200		3,4		3400
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														
<b>Die Cushion (Option)</b>																																								
Capacity	kN		80X2		—		100X2		—		140X2		—		140X2		—		140X2		—		140X2		—															
Stroke Length	mm		110		—		130		—		140		—		140		—		140		—		140		—															
Cushion Pad Area (LRxFB)	mm		560X370X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		560X370X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2															

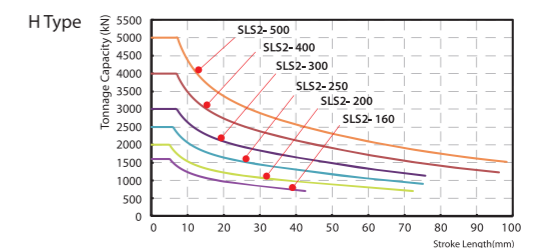
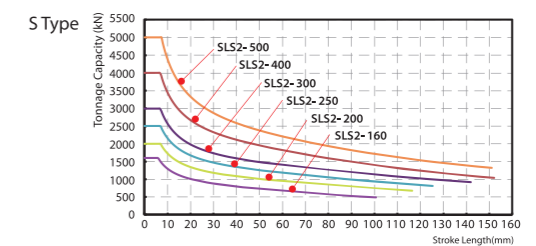
## SNS2 · SLS2 Machine Dimension



## SNS2 Stroke & Pressure Curve



## SLS2 Stroke & Pressure Curve



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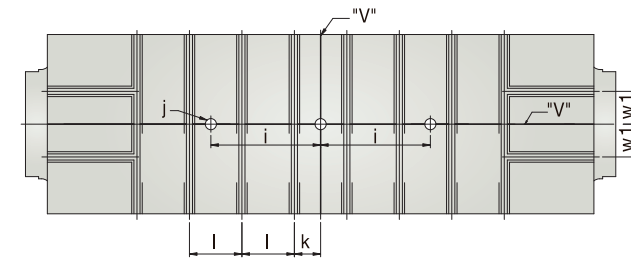
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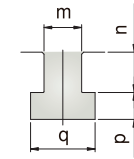
Model	SNS2-160		SNS2-200		SNS2-250		SNS2-300		SNS2-400		SNS2-500	
	S	H	S	H	S	H	S	H	S	H	S	H
a	200		215		235		235		235		235	
b	200		220		220		220		220		220	
c	150		160		180		1,2	180	1,2	180	1,2	180
							3,4	400	3,4	400	3,4	400
d	100		110		110		110		110		110	
e	100		100		100		100		100		100	
f(LRXFB)	6X4X2		7X5X2		7X5X2		7X5X2		7X5X2		7X5X2	
g	ø32		ø32		ø32		ø32		ø32		ø32	
h	400		490		510		1,2	510	1,2	510	1,2	510
							3,4	730	3,4	730	3,4	730
i	400		450		450		1,2	450	1,2	582	1,2	679
							3,4	900	3,4	900	3,4	
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

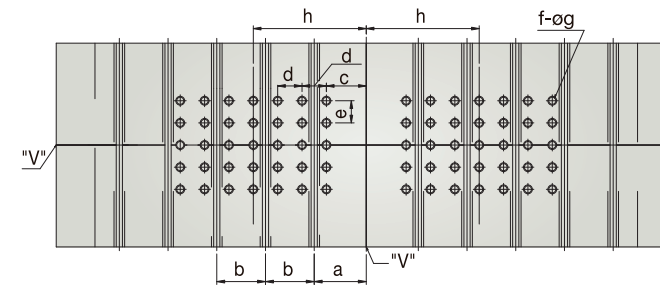
#### Surface of Slide



#### Size of T-Slot



#### Surface of Bolster



※ This specification is subject to change without notice.

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