



# SNS · SLS SERIES

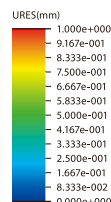
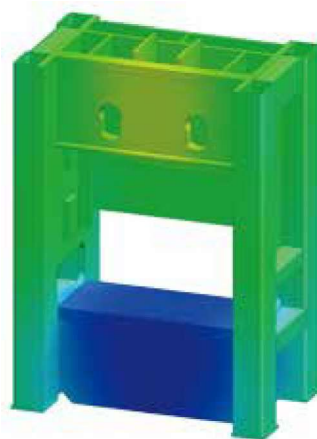
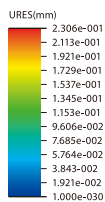
Solid Frame Crank Press · Solid Frame Crank Link Press  
Unitized Frame / Monoblock Frame



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EXCELLENCE  
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# SNS1 . SLS1 × SNS2 . SLS2

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



## Excellent Frame Rigidity

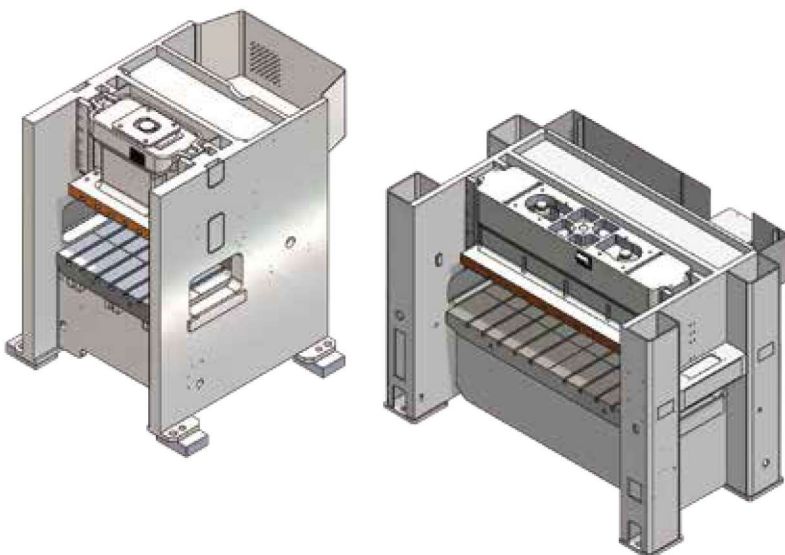
- 3D design, CAE analysis, excellent stiffness.
- Optimized symmetric structure, firmly supported stamping points.
- Minimized stamping noise and vibration.
- Stabilized parts precision and quality.
- Durable dynamic stability, resulting in longer die life.



- 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 80 to 300 tons, SNS2 · SLS2 from 160 to 500 tons.
- 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.



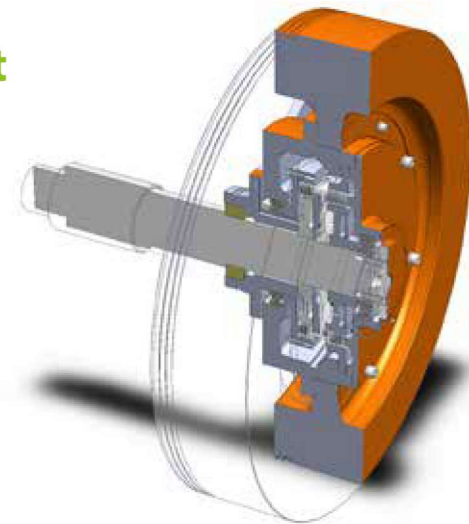
## Hydraulic Overload Protector

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



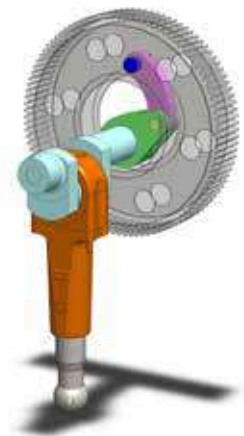
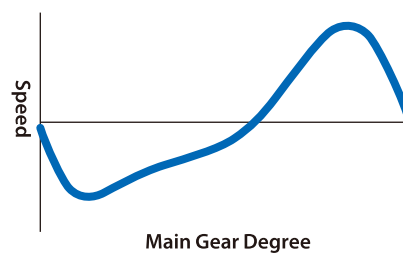
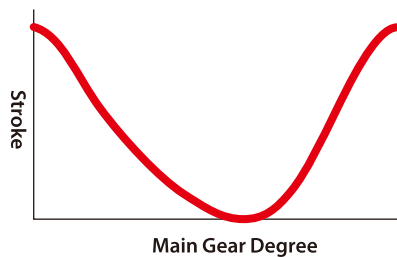
## Wet-Type Clutch-and-Brake Unit

- 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

- Self-developed PPC-9000 control panel, friendly to operate.
- 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.

SNS1

SNS2



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

**Compliance with US-Europe-China safety guideline.**

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

**Quick Die Change (Option)**

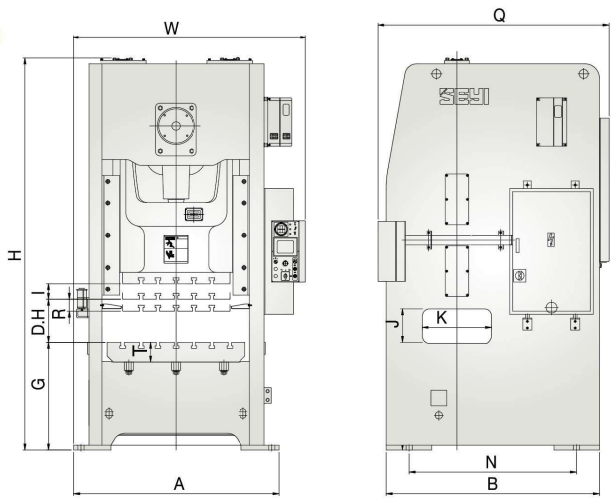




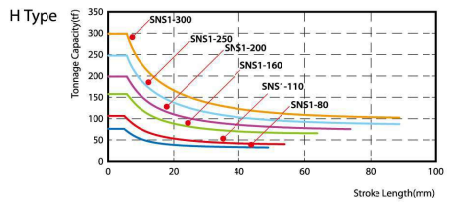
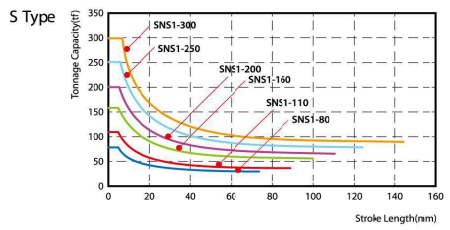
# SNS1 · SLS1 SERIES

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	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H									
Type																																																	
Tonnage Capacity	80				110				160				200				250				300				80				110				160				200				250				300				
Stroke Length (l)	mm	150	100	180	110	200	130	220	150	250	180	280	180	150	100	180	110	200	130	220	150	250	180	280	180	150	100	180	110	200	130	220	150	250	180	280	180												
Stroke per Minute	S.P.M	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	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	mm	5				5				6				6				6				5				5				6				6				6				6							
Die Height (D.H)	mm	330	300	350	320	400	360	450	400	450	400	500	400	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)	mm	80				90				100				110				120				120				80				90				100				110				120							
Slide Area (L.R.xF.B.)	mm	700X460				800X520				900X580				1000X650				1100X720				1150X800				700X460				800X520				900X580				1000X650				1100X720				1150X800			
Diameter of Shank Hole	mm	ø50.8				ø50.8				ø65				ø65				ø65				ø65				ø50.8				ø50.8				ø65				ø65				ø65							
Bolster Area (L.R.xF.B.)	mm	900X660	900X460	1000X680	1000X520	1150X760	1150X600	1250X840	1250X680	1350X900	1350X750	1400X1050	1400X850	900X660	900X460	1000X680	1000X520	1150X760	1150X600	1250X840	1250X680	1350X900	1350X750	1400X1050	1400X850	900X660	900X460	1000X680	1000X520	1150X760	1150X600	1250X840	1250X680	1350X900	1350X750	1400X1050	1400X850												
Bolster Thickness (T)	mm	140				155				165				180				200				140				155				165				180				200											
Bolster Height (W/O Mounts) (G)	mm	900				900				940				1020				1040				1020				900				900				940				1020				1000				1040			
Main Motor (Fixed Speed + Inverter)	HPXP	10X4				15X4				20X4				25X4				30X4				40X4				10X4				15X4				20X4				25X4				30X4				40X4			
Slide Adjustment Motor	HPXP	0.5X4				0.5X4				1X4				1X4				2X4				0.5X4				0.5X4				1X4				1X4				2X4				2X4							
Window Opening (KxJ)	mm	440X280	370X250	500X300	420X270	560X350	470X310	620X400	520X350	680X400	570X350	760X450	550X350	440X280	370X250	500X300	420X270	560X350	470X310	620X400	520X350	680X400	570X350	760X450	550X350	440X280	370X250	500X300	420X270	560X350	470X310	620X400	520X350	680X400	570X350	760X450	550X350												
Foot Print: (AxB)	mm	1430X1470	1430X1420	1560X1600	1560X1550	1720X1780	1720X1730	1870X1980	1870X1930	1990X2150	1990X2100	2070X2297	2070X2247	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)	mm	1630X1740				1765X1875				1905X2055				2055X2245				2175X2500				2255X2580				1630X1740				1765X1875				1905X2055				2055X2245				2175X2500				2255X2580			
Press Height (W/O Mounts) (H)	mm	2765				3000				3320				3740				4020				4200				2765				3000				3320				3740				4020				4200			
Upper Die Weight	kg	300				350				500				800				1000				1000				300				350				500				800				1000				1000			
Required Air Pressure	kgf/cm <sup>2</sup>	5				5				5				5				5				5				5				5				5				5				5				5			
Die Cushion (Option)																																																	
Capacity	tf	6	—	6	—	8	—	10	—	10	—	14	—	6	—	6	—	8	—	10	—	10	—	14	—	6	—	6	—	8	—	10	—	10	—	14	—												
Stroke Length	mm	95	—	95	—	110	—	130	—	130	—	140	—	95	—	95	—	110	—	130	—	130	—	140	—	95	—	95	—	110	—	130	—	130	—	140	—												
Die Cushion Area (L.R.xF.B.)	mm	480X340	—	480X340	—	560X370	—	700X450	—	700X450	—	700X450	—	480X340	—	480X340	—	560X370	—	700X450	—	700X450	—	700X450	—	480X340	—	480X340	—	560X370	—	700X450	—	700X450	—	700X450	—												

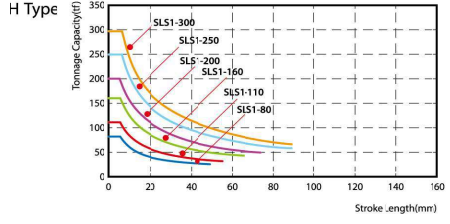
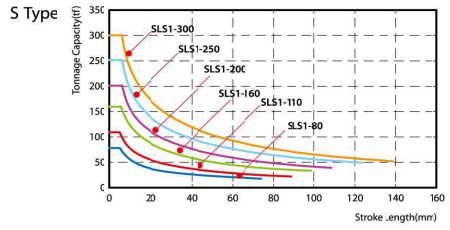
## SNS1 · SLS1 Machine Dimension



## SNS1 Stroke & Pressure Curve



## SLS1 Stroke & Pressure Curve

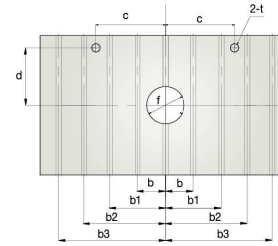


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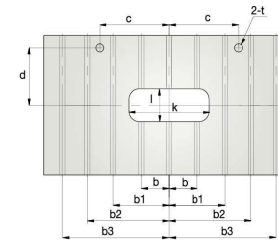


Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80	SLS1-110	SLS1-110	SLS1-160	SLS1-200	SLS1-250	SLS1-250	SLS1-300	SLS1-300	SLS1-300	SLS1-300	SLS1-300
Type	S	H	S	H	S	H	S	H	S	H	S	H
b	150	150	150	150	150	150	150	150	150	150	150	150
b1	300	300	300	300	300	300	300	300	300	300	300	300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

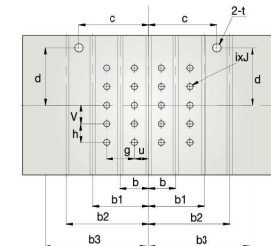
Surface of Bolster-Round Type (Standard)



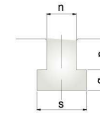
Surface of Bolster-Rectangular Type



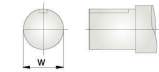
Surface of Bolster-Die Cushion



Size of T-Slot

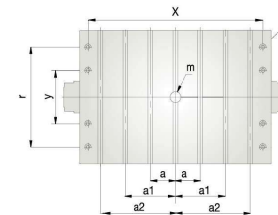


Surface of Take-Off Shaft (Option)

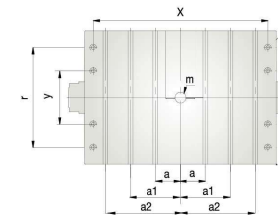


Model	SNS1-80		SNS1-110		SNS1-160		SNS1-200		SNS1-250		SNS1-300	
	SLS1-80	SLS1-110	SLS1-110	SLS1-160	SLS1-200	SLS1-250	SLS1-250	SLS1-300	SLS1-300	SLS1-300	SLS1-300	SLS1-300
Type	S	H	S	H	S	H	S	H	S	H	S	H
a	150	150	150	150	150	150	150	150	150	150	150	150
a1	240	300	300	300	300	300	300	300	300	300	300	300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

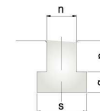
Without Shank Holder



With Shank Holder



Size of T-Slot



Area of Slide

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

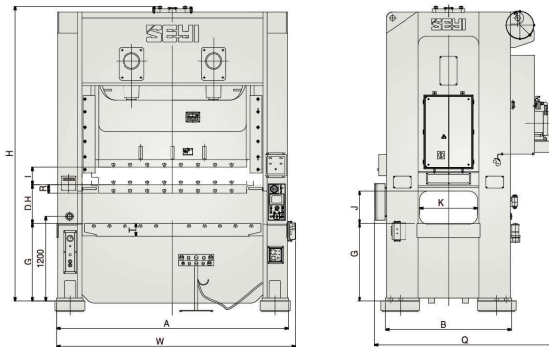
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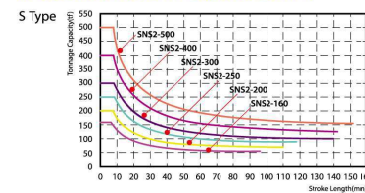
# SNS2 · SLS2 SERIES

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																
Tonnage Capacity	160		200		250		300		400		500		160		200		250		300		400		500																	
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																
Stroke per Minute	S.P.M. 30-55		40-85		25-45		35-70		22-40		30-60		20-40		25-50		20-40		30-55		40-85		25-45		15-30															
Tonnage Rating Point	mm 6		4		7		4		7		5		7		5		7		6		7		7		7															
Die Height (D.H)	mm 450		400		500		450		550		450		550		450		550		450		550		450		450															
Slide Adjustment (R)	mm 100		100		120		120		120		120		100		100		120		120		120		120		120															
Slide Area (L.Rx.F.B.)	mm 1560X650		1850X750		1		2200X820		1		2200X900		1		2200X1000		1		2200X1100		1		2200X1000		1		2200X1100													
Diameter of Shank Hole	mm ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes		ø51X3 Holes													
Bolster Area (L.Rx.F.B.)	mm 1850X760		2200X840		1		2500X920		1		2500X1000		1		2500X1100		1		2500X1200		1		2500X1000		1		2500X1100													
Bolster Thickness (T)	mm 160		170		180		200		200		200		160		170		180		200		200		200		200		200													
Bolster Height (w/O Mounts) (G)	mm 950		1000		1		1100		1,2		1150		1250		1250		950		1000		1		1100		1,2		1150													
Main Motor (Fixed Speed + Inverter)	HPXP 20X4		25X4		30X4		40X4		50X4		60X4		20X4		25X4		30X4		40X4		50X4		60X4		20X4		25X4													
Slide Adjustment Motor	HPXP 2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4		2X4													
Window Opening (K)	mm 660		740		820		900		1000		1100		660		740		820		900		1000		1100		660		740													
Window Opening (J)	mm 400		320		450		350		460		350		550		400		550		400		400		320		450		350													
Foot Print (AxB)	mm 2600X1430		2930X1650		1		3290X1790		1		3390X1870		1		3410X2070		1		3670X2170		1		3290X1850		1		3390X1930		1		3410X2070		1		3670X2170					
Required Floor Space (WxQ)	mm 2705X2345		3045X2490		1		3490X2665		1		3545X2955		1		3845X2955		1		4100X3210		1		3365X2695		1		3490X2780		1		3485X3160		1		3745X3265					
Press 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	
Upper Die Weight	kg 1400		2000		1		2200		1,2		2800		1,2		3000		1,2		5020		1,2		3200		1,2		3400		1,2		3400		1,2		3200		1,2		3400	
Required Air Pressure	kgf/cm <sup>2</sup> 6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6		6			
<b>Die Cushion (Option)</b>																																								
Capacity	tf 8X2		—		10X2		—		14X2		—		14X2		—		14X2		—		14X2		—		14X2		—		14X2		—		14X2		—		14X2		—	
Stroke Length	mm 110		—		130		—		140		—		140		—		140		—		140		—		140		—		140		—		140		—		140		—	
Die Cushion Area (L.Rx.F.B.)	mm 560X370X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		560X370X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2		700X450X2			

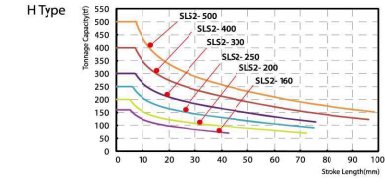
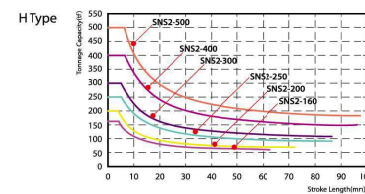
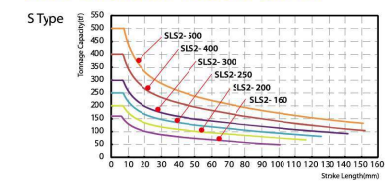
## SNS2 · SLS2 Machine Dimension



## SNS2 Stroke & Pressure Curve



## SLS2 Stroke & Pressure Curve



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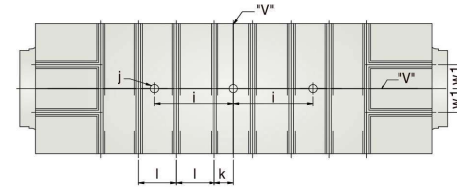
2019.06



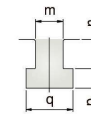
Model	SNS2-160		SNS2-200		SNS2-250		SNS2-300		SNS2-400		SNS2-500	
	S	H	S	H	S	H	S	H	S	H	S	H
a	200		215		235		235		235		235	
b	200		220		220		220		220		220	
c	150		160		180		1,2	180	1,2	180	1,2	180
							3,4	400	3,4	400	3,4	400
d	100		110		110		110		110		110	
e	100		100		100		100		100		100	
f(L.R.XFB.)	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

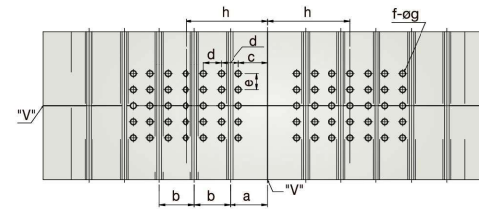
#### Surface of Slide



#### Size of T-Slot



#### Surface of Bolster



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# 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
  - PPC 9200 Control System
    - SPM and Crank Angle Displays
    - Programmable Cam Switches
    - Air Outlet - 1 Set
    - Touch Panel Display with Press Running / Error Message
    - Portable Operator Stand - 1 Set
    - Maintenance Tool Box
    - Total/Preset/Batch/Maintenance Counter
  - Anti-Repeat Safety Circuit
  - Motorized Slide Adjustment
  - Main Moter 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
- Safety Block
- Adjustable Single Shot Lubrication



# SNS2 · SLS2 SERIES

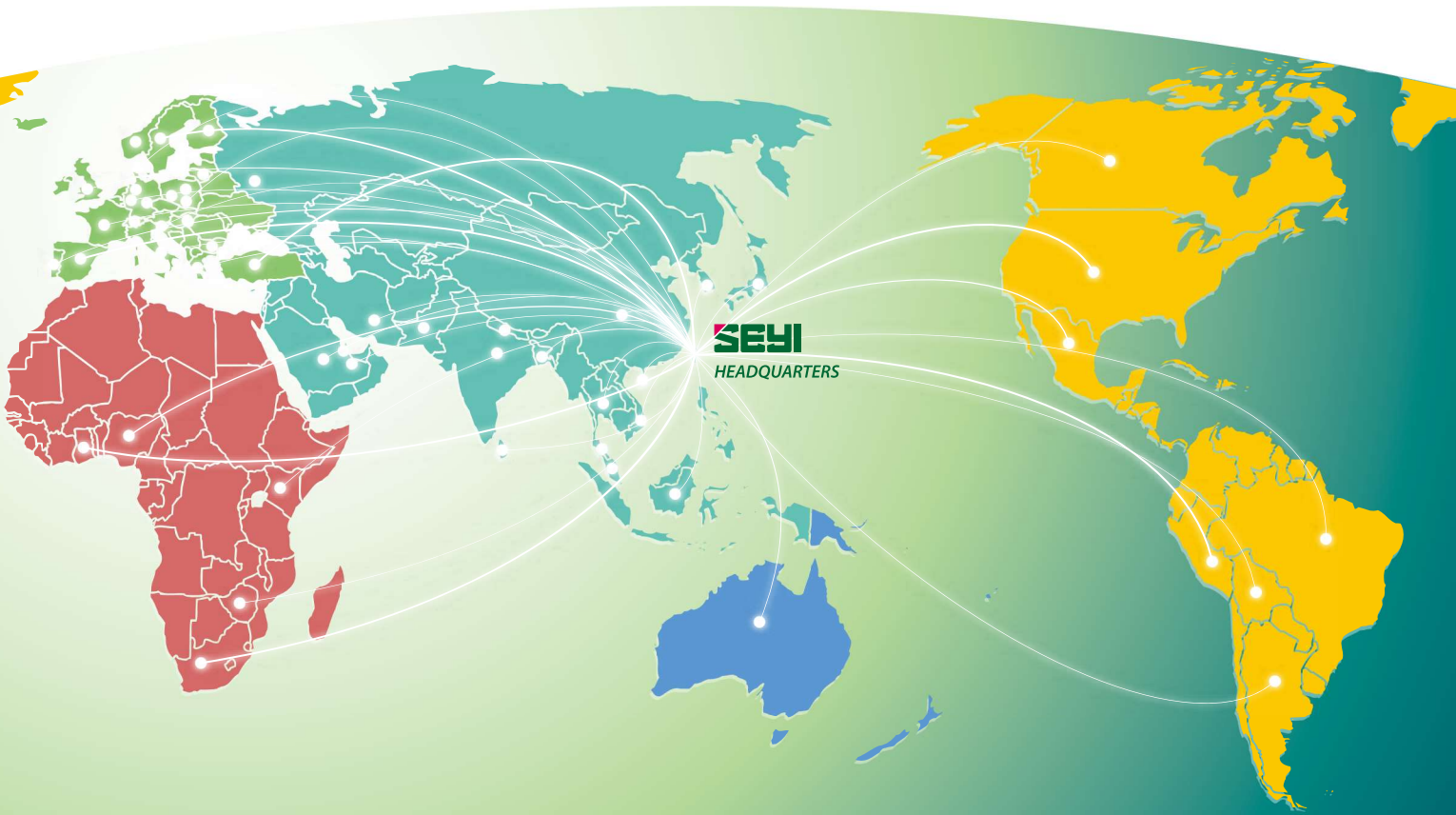
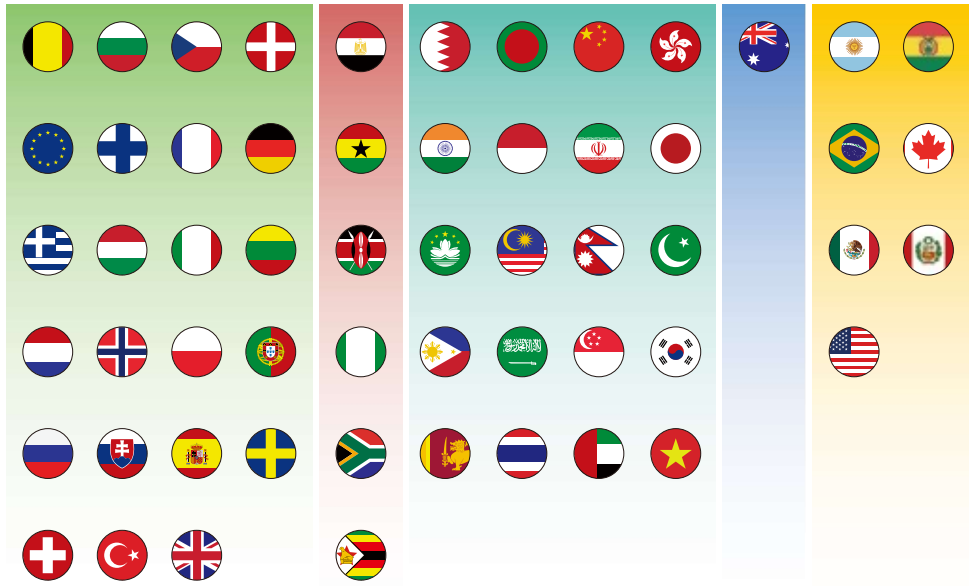
## Standard Attachments

- 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
  - PPC 9200 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
  - Portable Operator Stand - 1 Set
  - Anti-Repeat Safety Circuit
  - Motorized Slide Adjustment
  - Main Motor 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
- Die Lamp
- Bottom Dead Center Detector

# GLOBAL SERVICE LOCAL SUPPORT





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