

SD1 series



Model		SD1-80	SD1-160	SD1-200	SD1-300	
Capacity	kN	800	1600	2000	3000	
Stroke Length	mm	180	220	250	300	
Strokes per Minute	SPM	~80	~ 60	~ 50	~ 40	
Tonnage Rating Point	mm	5	6	6	6	
Die Height	mm	330	400	450	550	
Slide Adjustment	mm	80	100	110	120	
Slide Area (LR x FB)	mm	700 x 460	900 x 580	1000 x 670	1150 x 800	
Bolster Area (LR x FB)	mm	950 x 680	1150 x 760	1300 x 870	1450 x 1050	
Bolster Thickness	mm	140	165	180	200	
Bolster Height (w/ Mounts)	mm	989	1054	1134	1154	
Window Opening (FB x UD)	mm	680 x 280	760 x 350	870 x 400	1050 x 450	
Floor Space Required	mm	1961 × 2050	2161 × 2557	2224 × 2761	2414 × 3157	
Total Height (w/ Mounts)	mm	3050	3610	3985	4460	
Max. Upper Die Weight	kg	300	500	800	1300	
Required Air Pressure	MPa	0.5	0.5	0.5	0.5	
Die Cushion	Capacity	kN	60	80	100	140
	Stroke Length	mm	95	110	130	140
	Cushion Pad Area (LR x FB)	mm	480x340	560x370	700x450	700x450

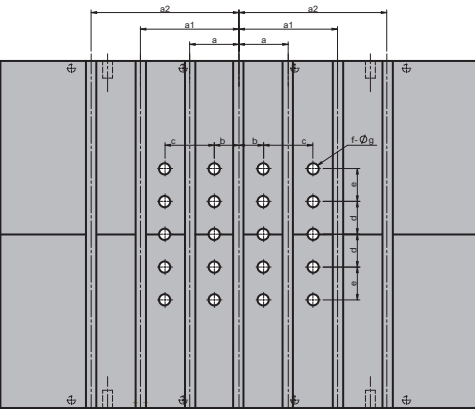
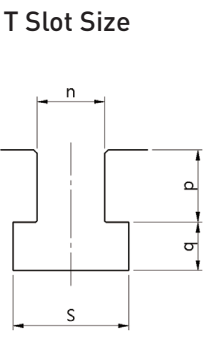
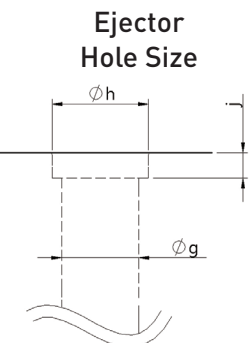
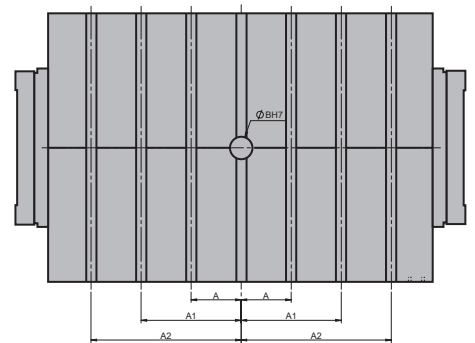
Standard Features

- Servo System
 - Safety Brake System
 - Electrical Overload Protection
 - Tonnage Monitor
 - Programmable Motion Profiles
 - Job Storage Capacity - Up to 200
- Die Height Adjustment
 - Slide Positon Adjustment(Handy Pulser)
 - Portable Operation Stand
 - Misfeed Socket
 - Pneumatic ejector
 - Safety Light Curtain
- Oil Lubrication System
 - Total/Preset/Batch/Maintenance Counter
 - Anti Vibration Mounts
 - Safety Block
 - Die Lamp
 - Tool Box

Optional Features

- Hydro-pneumatic Die Cushion
 - Quick Die Change System
 - Safety Door
- Hydraulic Die Cushion
 - Lamp Socket
- NDC (Servo Die Cushion)
 - Rear Safety Guard

Slide Area & Bolster Area



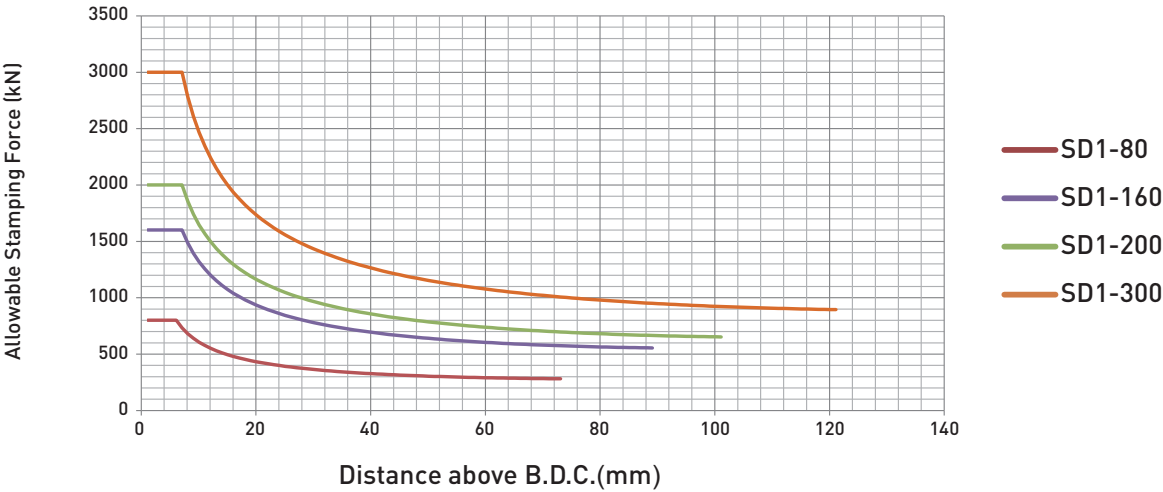
Unit: mm

Model		SD1-80	SD1-160	SD1-200	SD1-300
Bolster	a	150	150	150	150
	a1	300	300	300	300
	a2	-	450	450	450
	b	75	75	75	75
	c	140	150	150	150
	d	45	50	100	100
	e	90	100	100	100
	f (LRxFB)	4x5	4x5	4x5	4x5
	Øg	32	32	32	32
	Øh	40	40	40	40
	j	10.5	10.5	10.5	10.5
	n	28	28	28	28
	p	30	30	30	30
	q	20	20	20	20
	s	48	48	48	48
Slide Area	A	150	150	150	150
	A1	240	300	300	300
	A2	-	-	-	450
	ØB	50.8	65	65	65

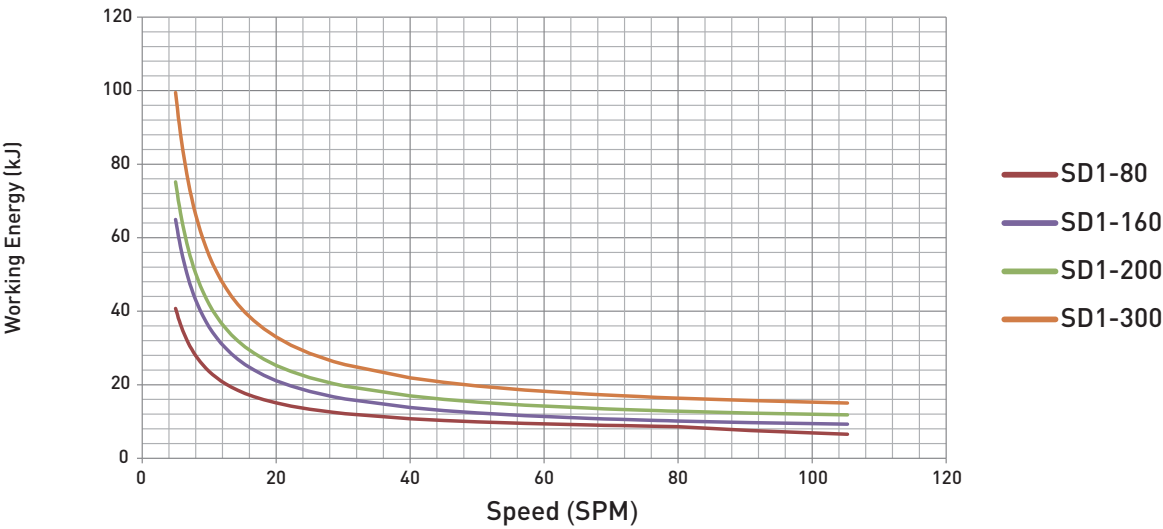
SD1 Series Curve Diagram



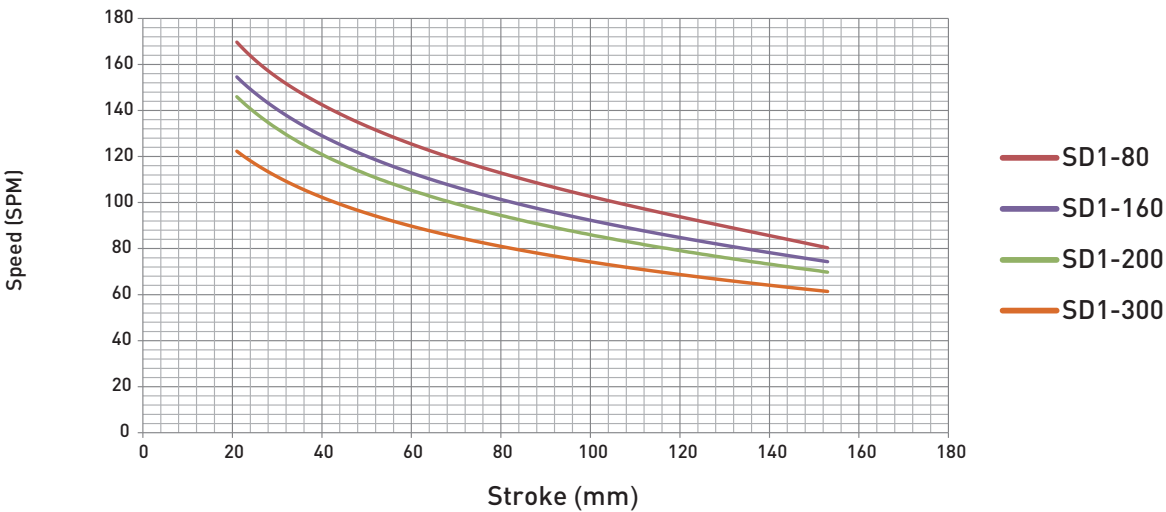
Tonnage Curves



Working Energy



Pendulum Motion



SD2 series



Model		SD2-160	SD2-200	SD2-300	SD2-400	SD2-500
Capacity	kN	1600	2000	3000	4000	5000
Stroke Length	mm	220	250	300	350	350
Strokes per Minute	SPM	~60	~ 50	~ 40	~ 40	~ 40
Tonnage Rating Point	mm	6	6	6	6	6
Die Height	mm	450	500	600	650	650
Slide Adjustment	mm	100	110	120	130	130
Slide Area (LR x FB)	mm	1620 x 580	1900 x 670	2280 x 800	2380 x 1000	2380 x 1100
Bolster Area (LR x FB)	mm	1910 x 760	2200 x 870	2580 x 1050	2680 x 1200	2680 x 1300
Bolster Thickness	mm	160	170	200	200	200
Bolster Height (w/ Mounts)	mm	1064	1114	1264	1428	1428
Window Opening (FB x UD)	mm	760 x 400	870 x 450	1050 x 500	1200 x 550	1300 x 550
Floor Space Required	mm	2921 x 2510	3099 x 2666	3519 x 3115	3733 x 3250	4000 x 3400
Total Height (w/ Mounts)	mm	3687	4099	4710	5117	5204
Max. Upper Die Weight	kg	800	1300	1800	2500	2700
Required Air Pressure	MPa	0.5	0.5	0.5	0.5	0.5
Die Cushion	Capacity	kN	80x2	100x2	140x2	140x2
	Stroke Length	mm	110	130	140	140
	Cushion Pad Area (LR x FB)	mm	560x370x2	700x450x2	700x450x2	700x450x2

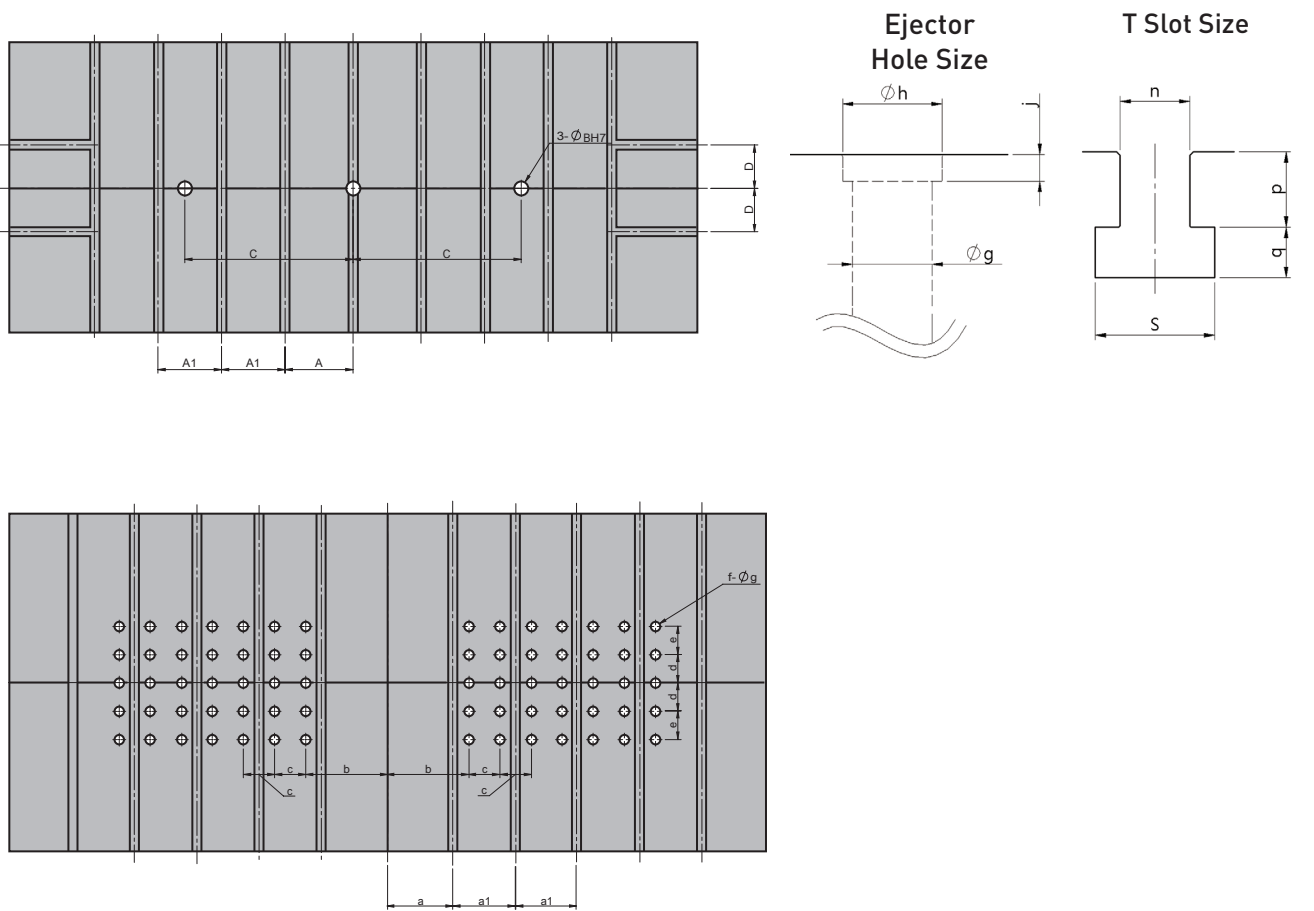
Standard Features

- Servo System
 - Safety Brake System
 - Electrical Overload Protection
 - Tonnage Monitor
 - Programmable Motion Profiles
 - Job Storage Capacity - Up to 200
- Die Height Adjustment
 - Slide Positon Adjustment(Handy Pulser)
 - Portable Operation Stand
 - Misfeed Socket
 - Pneumatic ejector
 - Safety Light Curtain
- Oil Lubrication System
 - Total/Preset/Batch/Maintenance Counter
 - Anti Vibration Mounts
 - Safety Block
 - Die Lamp
 - Tool Box

Optional Features

- Hydro-pneumatic Die Cushion
 - Quick Die Change System
 - Safety Door
- Hydraulic Die Cushion
 - Lamp Socket
- NDC (Servo Die Cushion)
 - Rear Safety Guard

Slide Area & Bolster Area



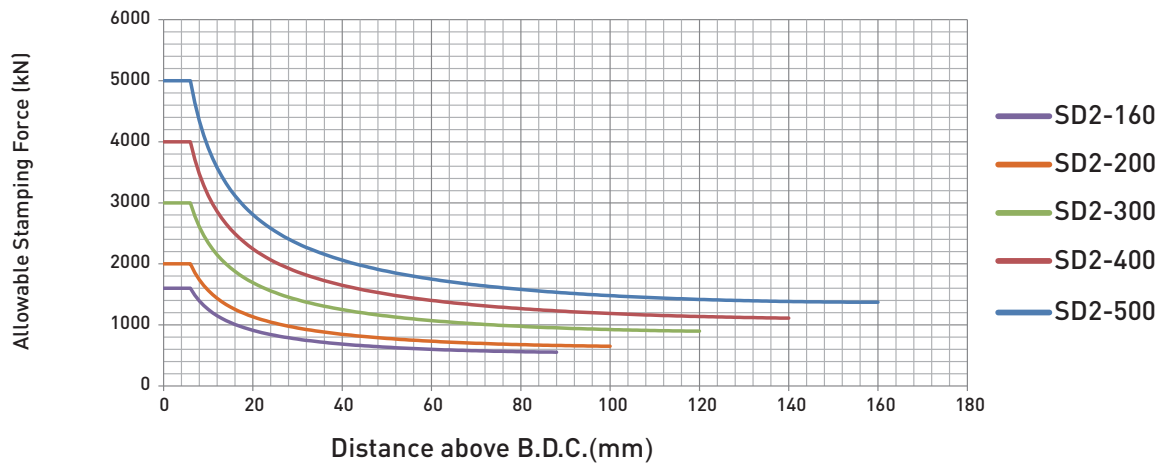
Unit: mm

Model		SD2-160	SD2-200	SD2-300	SD2-400	SD2-500
Bolster	a	200	215	235	235	235
	a1	200	220	220	220	220
	b	150	160	290	290	290
	c	100	110	110	110	110
	d	50	100	100	100	100
	e	100	100	100	100	100
	f (LRxFB)	6x4x2	7x5x2	7x5x2	7x5x2	7x5x2
	ϕg	32	32	32	32	32
	ϕh	40	40	40	40	40
	j	10.5	10.5	10.5	10.5	10.5
	n	28	28	28	28	28
	p	30	30	30	30	30
	q	20	20	20	20	20
	s	48	48	48	48	48
Slide Area	A	200	215	235	235	235
	A1	200	220	220	220	220
	ϕB	51	51	51	51	51
	C	400	500	450	582	582
	D	125	140	150	150	150

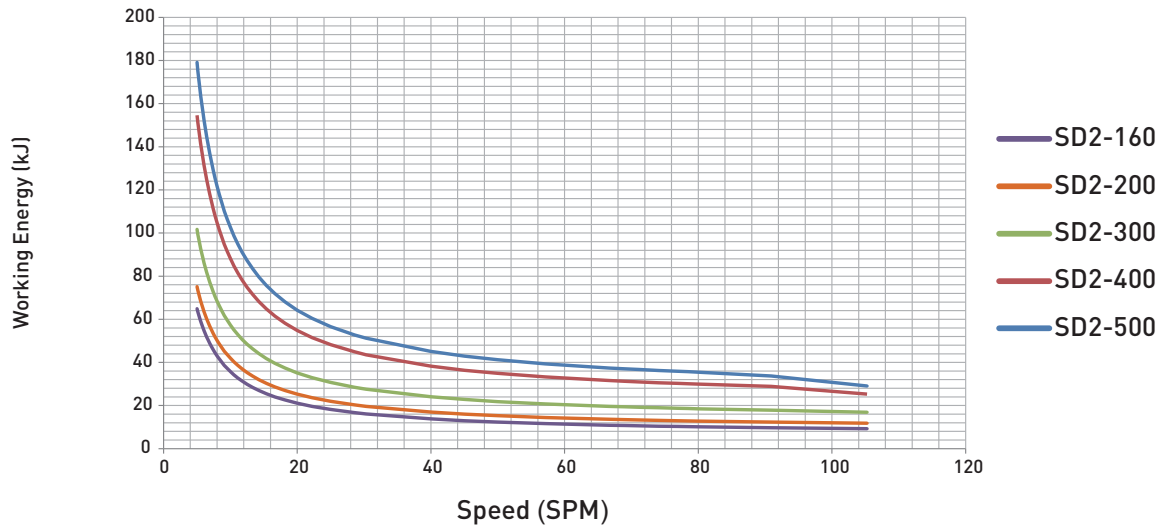
SD2 Series Curve Diagram



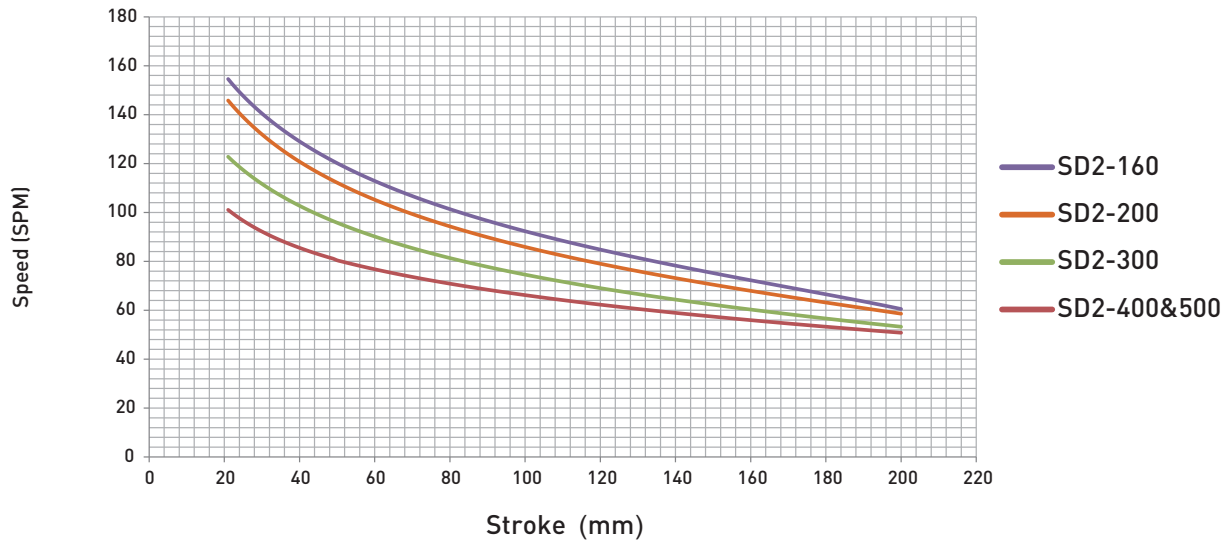
Tonnage Curves



Working Energy



Pendulum Motion



SDG2 · SDG4 series

Model			SDG2-400	SDG2-600	SDG2-800	SDG2-1000	SDG2-1200	SDG4-400	SDG4-500	SDG4-600	SDG4-800	SDG4-1000	SDG4-1200	SDG4-1600	SDG4-2000	SDG4-2400	
Capacity			kN	4000	6000	8000	10000	12000	4000	5000	6000	8000	10000	12000	16000	20000	24000
Stroke Length			mm	350	350	350	400	400	350	350	350	350	400	400	450	450	450
Pendulum Motion Stroke Length			mm	100	100	100	140	140	—	—	—	—	—	—	—	—	—
Strokes per Minute			SPM	~50	~50	~50	~50	~50	~50	~50	~50	~50	~50	~50	~40	~40	~40
Pendulum Motion Strokes per Minute			SPM	~80	~80	~80	~80	~80	—	—	—	—	—	—	—	—	—
Tonnage Rating Point			mm	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Die Height			mm	700	700	800	800	800	700	700	700	800	800	800	900	1000	1000
Slide Adjustment			mm	250	250	300	300	300	250	250	250	300	300	300	300	300	300
Slide Area (LR x FB)		1	mm	2500×1400	2500×1550	2800×1550	3100×1550	3400×1550	2500×2000	2500×2000	2500×2000	2800×2200	3100×2200	3400×2200	3400×2200	4000×2200	4000×2200
		2		2800×1400	2800×1550	3100×1550	3400×1550	3700×1550	2800×2000	2800×2000	2800×2000	3100×2200	3400×2200	3700×2200	3700×2200	4300×2200	4300×2200
		3		3100×1400	3100×1550	3400×1550	3700×1550	4000×1550	3100×2000	3100×2000	3100×2000	3400×2200	3700×2200	4000×2200	4000×2200	4600×2200	4600×2200
		4		3400×1400	3400×1550	3700×1550	4000×1550	4300×1550	3400×2000	3400×2000	3400×2000	3700×2200	4000×2200	4300×2200	4300×2200	4900×2200	4900×2200
Bolster Area (LR x FB)		1	mm	2500×1400	2500×1550	2800×1550	3100×1550	3400×1550	2500×2000	2500×2000	2500×2000	2800×2200	3100×2200	3400×2200	3400×2200	4000×2200	4000×2200
		2		2800×1400	2800×1550	3100×1550	3400×1550	3700×1550	2800×2000	2800×2000	2800×2000	3100×2200	3400×2200	3700×2200	3700×2200	4300×2200	4300×2200
		3		3100×1400	3100×1550	3400×1550	3700×1550	4000×1550	3100×2000	3100×2000	3100×2000	3400×2200	3700×2200	4000×2200	4000×2200	4600×2200	4600×2200
		4		3400×1400	3400×1550	3700×1550	4000×1550	4300×1550	3400×2000	3400×2000	3400×2000	3700×2200	4000×2200	4300×2200	4300×2200	4900×2200	4900×2200
Bolster Thickness			mm	180	250	250	250	300	180	180	250	250	250	300	300	300	300
Window Opening	Bolster Only	(FB x UD)	mm	1100×600	1300×600	1500×700	1500×700	1500×700	1800×600	1800×600	1800×600	2000×700	2000×700	2000×700	2000×800	2000×900	2000×900
	Front to Back Rolling Bolster			1100×600	1300×600	1500×700	1500×700	1500×700	1800×600	1800×600	1800×600	2000×700	2000×700	2000×700	2000×800	2000×900	2000×900
	Left to Right Rolling Bolster			1700×800	1850×800	1850×900	1850×900	1850×900	2300×800	2300×800	2300×800	2500×900	2500×900	2500×900	2500×1000	2500×1100	2500×1100
Max. Upper Die Weight			Ton	4	5	5.5	6	7	8	8	9	10	10	11	13	15	20
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
Bolster Height	Fixed Bolster		mm	850	850	850	850	850	660	660	660	660	740	740	740	740	740
	Rolling Bolster			660	660	660	740	740	660	660	660	660	740	740	740	740	740
Die Cushion	Type			Cylinder	Cylinder	Cylinder*	Cylinder*	Cylinder*	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder
	Capacity		kN	600	1000	1200**	1500	1500	600	800	1000	1200*	1500	1500	2000	2400	3000
	Stroke Length		mm	200	200	220	220	220	200	200	200	220	220	220	220	220	250
	Adjustment		mm	200	200	220	220	220	200	200	200	220	220	220	220	220	250
Cushion Pad Area (LR x FB)		1	mm	2000×900	2000×950	2300×1300	2600×1300	2900×1300	2000×1300	2000×1300	2000×1300	2300×1500	2600×1500	2900×1500	2900×1500	3500×1500	3500×1500
		2		2300×900	2300×950	2600×1300	2900×1300	3200×1300	2300×1300	2300×1300	2300×1300	2600×1500	2900×1500	3200×1500	3200×1500	3800×1500	3800×1500
		3		2600×900	2600×950	2900×1300	3200×1300	3500×1300	2600×1300	2600×1300	2600×1300	2900×1500	3200×1500	3500×1500	3500×1500	4100×1500	4100×1500
		4		2900×900	2900×950	3200×1300	3500×1300	3800×1300	2900×1300	2900×1300	2900×1300	3200×1500	3500×1500	3800×1500	3800×1500	4400×1500	4400×1500

* For selecting 1200kN, 1500kN and 2000kN air cylinder die cushions, bolster area in FB should be least 1700mm, cushion area in FB should be 1300mm.

** For SDG2-800-1 only 1000kN die cushion is available.

※ This specification is subject to change without notice.

※ For special requirements, please contact your local supplier.

* For SDG4-800-1, only 1000kN die cushion is available.

Standard Features

- Servo System
- Safety Brake System
- Motorized Slide Adjustment
- Automatic Slide Adjustment
- Tonnage Monitor
- Programmable Motion Profiles
- Job Storage Capacity -up to 200 Sets
- Electronic Die Release
- Programmable Cam Switches
- Portable Operator Stand
- Electrical Overload Protection
- Automatic Recirculating Lubrication System
- Total Counter
- Preset Counter
- Maintenance Counter
- Misfeed Socket
- Air Outlet
- Air Ejector
- Anti-Repeat Safety Circuit
- Touch Panel
- Safety Fence
- Safety Block
- Ladder
- Tool Box
- Die Lamp
- Embedded Operator Console
- Safety Light Curtain
- Anti Vibration Mounts
- Automatic Counter Balance Pressure Adjustment

Optional Features

- Die Cushion
- Die Cushion Stroke Adjustment
- Die Cushion Locking Device
- Die Cushion Pin Lifting Device
- Quick Die Change System
- Rolling Bolster
- Pressurized Air Supply
- Safety Door
- Safety Block (Special Type)
- Work Area Light for Front & Rear
- Remote Monitoring System



SDE2 · SDE4 series

Model			SDE2-400	SDE2-600	SDE2-800	SDE2-1000	SDE2-1200	SDE4-400	SDE4-500	SDE4-600	SDE4-800	SDE4-1000	SDE4-1200	SDE4-1600	SDE4-2000	SDE4-2400		
Capacity			kN	4000	6000	8000	10000	12000	4000	5000	6000	8000	10000	12000	16000	20000	24000	
Stroke Length			mm	600	600	800	800	800	600	600	600	800	800	800	800	900	1000	
Strokes per Minute			SPM	~30	~30	~25	~25	~25	~30	~30	~30	~25	~20	~20	~20	~20	~20	
Tonnage Rating Point			mm	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
Die Height			mm	700	800	1000	1000	1100	700	800	800	1000	1000	1100	1200	1300	1400	
Slide Adjustment			mm	300	400	500	500	500	300	400	400	400	400	500	500	600	600	
Slide Area (LR x FB)			1	mm	2500×1400	2500×1550	2800×1700	3100×1700	3400×1700	2500×2000	2500×2000	2500×2000	2800×2200	3100×2200	3400×2200	3400×2200	4000×2200	4000×2200
			2		2800×1400	2800×1550	3100×1700	3400×1700	3700×1700	2800×2000	2800×2000	2800×2000	3100×2200	3400×2200	3700×2200	3700×2200	4300×2200	4300×2200
			3		3100×1400	3100×1550	3400×1700	3700×1700	4000×1700	3100×2000	3100×2000	3100×2000	3400×2200	3700×2200	4000×2200	4000×2200	4600×2200	4600×2200
			4		3400×1400	3400×1550	3700×1700	4000×1700	4300×1700	3400×2000	3400×2000	3400×2000	3700×2200	4000×2200	4300×2200	4300×2200	4900×2200	4900×2200
Bolster Area (LR x FB)			1	mm	2500×1400	2500×1550	2800×1700	3100×1700	3400×1700	2500×2000	2500×2000	2500×2000	2800×2200	3100×2200	3400×2200	3400×2200	4000×2200	4000×2200
			2		2800×1400	2800×1550	3100×1700	3400×1700	3700×1700	2800×2000	2800×2000	2800×2000	3100×2200	3400×2200	3700×2200	3700×2200	4300×2200	4300×2200
			3		3100×1400	3100×1550	3400×1700	3700×1700	4000×1700	3100×2000	3100×2000	3100×2000	3400×2200	3700×2200	4000×2200	4000×2200	4600×2200	4600×2200
			4		3400×1400	3400×1550	3700×1700	4000×1700	4300×1700	3400×2000	3400×2000	3400×2000	3700×2200	4000×2200	4300×2200	4300×2200	4900×2200	4900×2200
Bolster Thickness			mm	180	250	250	250	300	180	180	250	250	250	300	300	300	300	
Window Opening	Bolster Only	(FB x UD)	mm	1200×600	1350×700	1500×900	1500×900	1500×1000	1800×600	1800×700	1800×700	2000×900	2000×900	2000×1000	2000×1100	2000×1200	2000×1300	
	Front to Back Rolling Bolster			1200×600	1350×700	1500×900	1500×900	1500×1000	1800×600	1800×700	1800×700	2000×900	2000×900	2000×1000	2000×1100	2000×1200	2000×1300	
	Left to Right Rolling Bolster			1700×800	1850×900	2000×1100	2000×1100	2000×1200	2300×800	2300×900	2300×900	2500×1100	2500×1100	2500×1200	2500×1300	2500×1400	2500×1500	
Max. Upper Die Weight			Ton	5	6	7	7	8	8	8	9	10	10	11	13	15	20	
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	
Bolster Height	Fixed Bolster		mm	850	850	850	850	850	660	660	660	660	740	740	740	740	740	
	Rolling Bolster			660	660	660	740	740	660	660	660	660	740	740	740	740	740	
Die Cushion	Type			Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	Cylinder	
	Capacity		kN	600	1000	1200	1500	1500	600	800	1000	1200*	1500	1500	2000	2400	3000	
	Stroke Length		mm	200	200	220	220	220	200	200	200	220	220	220	220	220	250	
	Adjustment		mm	200	200	220	220	220	200	200	200	220	220	220	220	220	250	
Cushion Pad Area (LR x FB)			1	mm	2000×900	2000×950	2300×1300	2600×1300	2900×1300	2000×1300	2000×1300	2000×1300	2300×1500	2600×1500	2900×1500	2900×1500	3500×1500	3500×1500
			2		2300×900	2300×950	2600×1300	2900×1300	3200×1300	2300×1300	2300×1300	2300×1300	2600×1500	2900×1500	3200×1500	3200×1500	3800×1500	3800×1500
			3		2600×900	2600×950	2900×1300	3200×1300	3500×1300	2600×1300	2600×1300	2600×1300	2900×1500	3200×1500	3500×1500	3500×1500	4100×1500	4100×1500
			4		2900×900	2900×950	3200×1300	3500×1300	3800×1300	2900×1300	2900×1300	2900×1300	3200×1500	3500×1500	3800×1500	3800×1500	4400×1500	4400×1500

※ This specification is subject to change without notice.

※ For special requirements, please contact your local supplier.

* For SDE4-800-1, only 1000kN die cushion is available.

Standard Features

- Servo System
- Safety Brake System
- Motorized Slide Adjustment
- Automatic Slide Adjustment
- Tonnage Monitor
- Programmable Motion Profiles
- Job Storage Capacity -up to 200 Sets
- Electronic Die Release
- Programmable Cam Switches
- Portable Operator Stand
- Electrical Overload Protection
- Automatic Recirculating Lubrication System
- Total Counter
- Preset Counter
- Maintenance Counter
- Misfeed Socket
- Air Outlet
- Air Ejector
- Anti-Repeat Safety Circuit
- Touch Panel
- Safety Fence
- Safety Block
- Ladder
- Tool Box
- Die Lamp
- Embedded Operator Console
- Safety Light Curtain
- Anti Vibration Mounts
- Automatic Counter Balance Pressure Adjustment

Optional Features

- Die Cushion
- Die Cushion Stroke Adjustment
- Die Cushion Locking Device
- Die Cushion Pin Lifting Device
- Quick Die Change System
- Rolling Bolster
- Pressurized Air Supply
- Safety Door
- Safety Block (Special Type)
- Work Area Light for Front & Rear
- Remote Monitoring System

