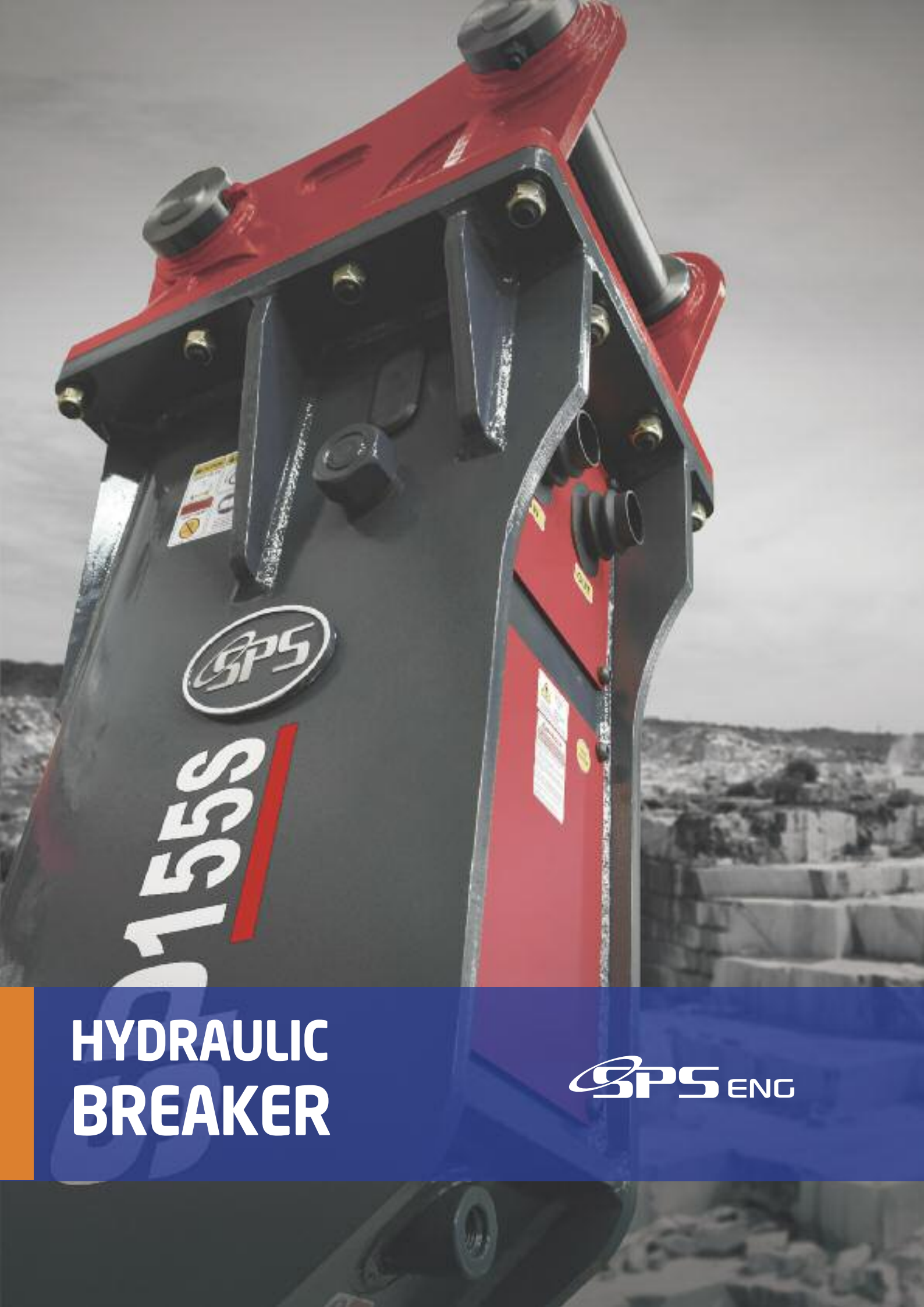


HYDRAULIC BREAKER

SPS ENG

OUTLAST, OUTPERFORM











High productivity High percussive performance and EnergyRecovery can increase the output per shift and lower energy & fuel consumption and operator costs.

Outstanding reliability Effective dust protection, automated lubrication and double tool retainer bars help to increase breaker availability, lifetime and resale value.

Low maintenance Automated lubrication, tailor made maintenance kits and an extended warranty program help to keep service & maintenance cost on a low level.

Easy maintenance Service opening provides direct access for routine maintenance; the percussion mechanism can be removed simply from the breaker box.

Automatic lubrication Mounted directly on the breaker box is simple to use and makes extremely economical use of lubricant.

Low maintenance Automated lubrication, tailor made maintenance kits and an extended warranty program help to keep service & maintenance cost on a low level.

Reduced strain on carrier Percussion mechanism suspended in prestressed elastic damping elements to prevent damage to carrier equipment.

Low noise emission levels No acoustic bridges between percussion mechanism and breaker box. All openings plugged.

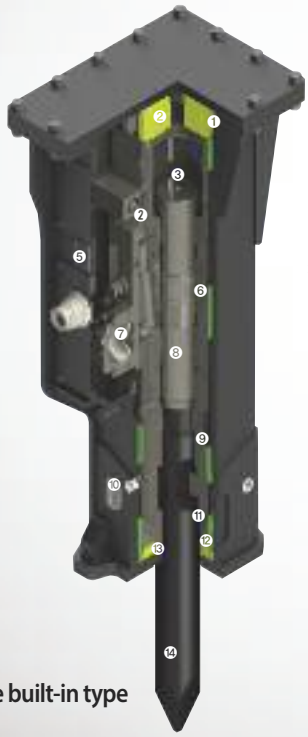
Low-recoil action reduces strain on man and machine Long piston stroke for low recoil.

Highly durable breaker box Wear-resistant materials used in high-stress zones.

Highly durable wear bushings DustProtector effectively prevents dust penetration.

Reliable working tools Precision matching of design, materials and heat treatment. In-house production.

VALVE TYPES



Valve built-in type

❶ Througt Bolt
Fully closed side(tie) rods enlarges the durability and the optimal load carrying capacity is designed.

❷ UPPER DAMPER
Vibration absorber to prevent the impulses between the carrier and the breaker.

❸ Energy Regeneration Nitrogen Gas Cushion Chamber(ERNGCC)
Absorbs the piston's upward recoil and conduct energy recycling for the constant blow.

❹ GUIDE BUFFER
Side vibration absorber and side suspension device to protect the powercell.

❺ Auto Grease Refiller
Compact auto grease refiller is equipped as an optional feature. Easy daily refill is serviced and continuous greasing is available as long as the breaker is operated. (Not shown on the illustration)

❻ Cylinder Design
Square typed cylinder design brings optimum match between back head and front head as well as improves stable operation to increase the product durability and to reduce the unnecessary damages such as scratchs.

❼ N2 Gas Charged Accumulator
Rechargeable N2 gas accumulator to assist power stroke and to reduce the surge pressure and the spikes from the hydraulic circuit of thw excavator

❽ Piston
Most efficient design for maximum energy transfer and recoil reduction as Well as ideal match of tool and piston diameters. It transfers highest shock wave into the breaking objects.

❾ All-in One Type of Upper Bushing and Thrust Ring Integration
Convenient one set and easier maintenance and serviceability without disassembly of powercell.

❿ Dual Rod Pins
Correct tool alignment and dispersion of tool wear.

⓫ Replaceable Tool Bushing
Convenience for replacement and protect the head. (Not shown on the illustration)

⓬ Wearing Plates
Employment of wear resistant plates between cylinder, front head and housing increases the oveall product durability.

⓭ DOWN DAMPER
Vibration absorber and suspension device to protect the powercell.

⓮ Working Rod
Heat treated and optimal length for efficient breaking.



Valve built-out type

Compact range

Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
SP 40	100	0.5~1.5	Built-in
SP 45	120	1.2 ~ 3.0	Built-in
SP 53	216	2.5 ~ 4.5	Built-in
SP 58	226	3.0 ~ 4.5	Built-in
SP 68	320	4 ~ 7	Built-in
SP 75	445	6 ~ 9	Built-in

Medium range

Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
SP 85	600	7 ~ 14	Built-in
SP 100	928	11 ~ 16	Built-in
SP 120V	1,240	13 ~ 20	Built-out
SP 125	1,460	16 ~ 22	Built-in
SP 135	1,705	18 ~ 21	Built-in
SP 135V	1,816	18 ~ 26	Built-out
SP 140	1,948	18 ~ 26	Built-in

Heavy-duty range

Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
SP 150	2,290	23 ~ 28	Built-in
SP 150V	2,450	25 ~ 30	Built-out
SP 155	2,890	28 ~ 35	Built-in
SP 160V	3,380	35 ~ 48	Built-out
SP 165	3,140	30 ~ 45	Built-in
SP 175	4,075	40 ~ 55	Built-in

Chisel Types



MOIL POINT TOOL
- Soft, nonabrasive and tough rock and especially concrete
- Materials requiring high penetration rate
- Where chisels have excessive retaining pin groove wear



COMPACTING TOOL
- Ground compacting



UNIVERSAL TOOL
- Where chisels have excessive retaining pin groove wear
- Soft and nonabrasive rock
- General demolition of concrete



FLAT (BLUNT) TOOL
- Hard rock with low or medium abrasive content
- Boulder breakering or concrete demolition
- Application where tool wear rate is low



H-WEDGE TOOL
- Hard and abrasive rock with fractures
- For application where drilling and blasting cannot be used
- Materials with low penetration rate



ASPHALT CUTTING TOOL
- Frozen or compact ground
- Asphalt

Option Device

Auto lubricant system



- SP Auto lubricant system
- SP Auto lubricant system with its grease catridges guarantee that breaker tool bushes receive the exact grease amount during its operation.
- This makes the demolition impact smoother and extends the bush & tool life.

SP SERIES / SPECIFICATION



Silenced Type (Box Type)

Description	Unit	SP 40S	SP 45S	SP 53S	SP 58S	SP 68S
Operating weight	Kg	100	120	216	226	320
Setting pressure	bar	140	140	150	150	160
Operating pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140
Oil flow range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70
Impact rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900
Hose diameter	inch	1/2	1/2	1/2	1/2	1/2
Tool diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7
Applicable carrier	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7
Noise level	L_{Pa} (dB)	85	90	89	89	89

Light duty range Medium duty range Heavy duty range

* The above specifications are subject to change without prior notice for improvement.



Standard Type (Open Type)

Description	Unit	SP 40T	SP 45T	SP 53T	SP 58T	SP 68T
Operating weight	Kg	80	100	196	206	298
Setting pressure	bar	140	140	150	150	160
Operating pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140
Oil flow range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70
Impact rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900
Hose diameter	inch	1/2	1/2	1/2	1/2	1/2
Tool diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7
Applicable carrier	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7
Noise level	L_{Pa} (dB)	85	90	89	89	89

Light duty range Medium duty range Heavy duty range

* The above specifications are subject to change without prior notice for improvement.



Side Type (Triangle Type)

Description	Unit	SP 40E	SP 45E	SP 53E	SP 58E	SP 68E
Operating weight	Kg	80	100	196	206	298
Setting pressure	bar	140	140	150	150	160
Operating pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140
Oil flow range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70
Impact rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900
Hose diameter	inch	1/2	1/2	1/2	1/2	1/2
Tool diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7
Applicable carrier	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7
Noise level	L_{Pa} (dB)	85	90	89	89	89

Light duty range Medium duty range Heavy duty range

* The above specifications are subject to change without prior notice for improvement.



VALVE
BUILT-IN TYPE

SP 75S	SP 85S	SP 100S	SP 125S	SP 135S	SP 140S	SP 150S	SP 155S	SP 165S	SP 175S
445	600	928	1,460	1,705	1,948	2,290	2,890	3,140	4,075
180	180	190	210	210	210	230	230	250	250
120 ~ 150	130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
50 ~ 90	60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
400 ~ 800	400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	37 ~ 50	48 ~ 63	51 ~ 69	55 ~ 77
1/2	3/4	3/4	1	1	1	1	1 - 1 / 4	1 - 1 / 4	1 - 1 / 4
75 / 2.9	85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
6 ~ 9	7 ~ 14	11~16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
88	88	88	88	86	85	87	90	91	92

SP 75T	SP 85T	SP 100T	SP 125T	SP 135T	SP 140T	SP 150T	SP 155T	SP 165T	SP 175T
375	577	908	1,431	1,675	1,936	2,237	2,838	3,065	4,002
180	180	190	210	210	210	230	230	250	250
120 ~ 150	130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
50 ~ 90	60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
400 ~ 800	400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	300 ~ 450	300 ~ 450	250 ~ 400	200 ~ 350
1/2	3/4	3/4	1	1	1	1	1 - 1 / 4	1 - 1 / 4	1 - 1 / 4
75 / 2.9	85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
6 ~ 9	7 ~ 14	11~16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
88	88	88	88	86	85	87	90	91	92

SP 75E	SP 85E	SP 100E	SP 125E	SP 135E	SP 140E	SP 150E	SP 155E	SP 165E	SP 175E
375	577	908	1,431	1,675	1,936	2,237	2,838	3,065	4,002
180	180	190	210	210	210	230	230	250	250
120 ~ 150	130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
50 ~ 90	60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
400 ~ 800	400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	300 ~ 450	300 ~ 450	250 ~ 400	200 ~ 350
1/2	3/4	3/4	1	1	1	1	1 - 1 / 4	1 - 1 / 4	1 - 1 / 4
75 / 2.9	85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
6 ~ 9	7 ~ 14	11~16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
88	88	88	88	86	85	87	90	91	92

SP SERIES / SPECIFICATION



Silenced Type (Box Type / Valve built-out type)

Description	Unit	SP 120VS	SP 135VS	SP 150VS	SP 160VS
Operating weight	Kg	1,240	1,816	2,450	3,380
Setting pressure	bar	210	210	230	230
Operating pressure	bar	150 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
Oil flow range	l/min	90 ~ 120	100 ~ 150	150 ~ 210	190 ~ 250
Impact rate	bpm	450 ~ 700	400 ~ 600	300 ~ 450	300 ~ 600
Hose diameter	inch	1	1	1	1 - 1 / 4
Tool diameter	mm/inch	120 / 4.7	135 / 5.3	150 / 5.9	160 / 6.3
Applicable carrier	ton	13 ~ 20	18 ~ 26	25 ~ 30	35 ~ 48
Noise level	L_{Pa} (dB)	89	86	84	84

* The above specifications are subject to change without prior notice for improvement.



Standard Type (Open Type / Valve built-out type)

Description	Unit	SP 120VT	SP 135VT	SP 150VT	SP 160VT
Operating weight	Kg	1,210	1,702	2,384	3,310
Setting pressure	bar	210	210	230	230
Operating pressure	bar	150 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
Oil flow range	l/min	90 ~ 120	100 ~ 150	150 ~ 210	190 ~ 250
Impact rate	bpm	450 ~ 700	400 ~ 600	300 ~ 450	300 ~ 600
Hose diameter	inch	1	1	1	1 - 1 / 4
Tool diameter	mm/inch	120 / 4.7	135 / 5.3	150 / 5.9	160 / 6.3
Applicable carrier	ton	13 ~ 20	18 ~ 26	25 ~ 30	35 ~ 48
Noise level	L_{Pa} (dB)	89	86	84	84

* The above specifications are subject to change without prior notice for improvement.



Backhoe Loader (Normal Type)

Skide Steer Loader type

Backhoe Loader (Box Type)

Backhoe Loader type

Description	Unit	SP 53BL	SP 58BL	SP 68BL	SP 75BL
Operating weight	BOX/TOP(Kg)	226 / 206	236 / 519	330 / 726	460 / 1,012
Setting pressure	bar	150	150	160	180
Operating pressure	bar	90 ~ 120	90 ~ 120	110 ~ 140	120 ~ 150
Oil Flow range	l/min	25 ~ 40	25 ~ 50	40 ~ 70	50 ~ 90
Impact rate	bpm	600 ~ 1,100	600 ~ 1,100	500 ~ 900	400 ~ 800
Hose diameter	inch	1/2	1/2	1/2	1/2
Tool diameter	mm/inch	53 / 2.1	58 / 2.3	68 / 2.7	75 / 2.9
Applicable carrier	ton	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7	6 ~ 9
Noise level	L_{Pa} (dB)	89	89	89	88

* The above specifications are subject to change without prior notice for improvement.

Skide Steer Loader type

SP 53SL	SP 58SL	SP 68SL
256 / 563	269 / 592	365 / 803
150	150	160
90 ~ 120	90 ~ 120	110 ~ 140
25 ~ 40	25 ~ 50	40 ~ 70
600 ~ 1,100	6.5 ~ 13	10.5 ~ 18.5
1/2	1/2	1/2
53 / 2.1	58 / 2.3	68 / 2.7
2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7
89	89	89

APPLICABLE CARRIER

ITEM/Model	BOBCAT	CASE	CASE/POCLAIN	CAT	DOOSAN	HITACHI	JCB	KOBELCO	KOMATSU	LIEBHERE	HYUNDAI	Q&K	VOLVO
SP 40 (0.5~1.5 Tons)	520, 530, X122, X220, X119, X120, 440B, 443	CK08, CK1.3, 1818UNILD, 1825UNILD	CK08, CK13		SOLAR007, SOLAR0010	EX8, UE10, EX12, EX15	801	SK007-2, SK013	PC05-1/5, PC05-6		ROBEX15, ROBEX28	RH1.1	
SP 45 (1.2~3.0 Tons)	709, 8709, 440B, 443, X119, X120, 81, 463, 533F, 322D	CK1.3, CK15, CK161, 825, 835B, 1818, 1830	CK08, CK13 CK15, CK25	301-5, 303-6, 301-8	SOLAR007, SOLAR0010	EX8, UE10, EX12, UX12, UE15, EX17, EX18, UE20, EX22	801, 8015, 8016	SK007, SK09, SK013, SK13	PC05, PC07-2		ROBEX35	RH1.1, RH1.2, RH1.17, RH1.21	EC14, EC15B EC20B
SP 53 (2.5~4.5 Tons) **SP 58** (3~5.5 Tons)	B100, B200, B250,520, 533F 543, 630, 631 641, 643, 645 721, 753, 763, 773, X122, X123, X220, X225, X825, X320, X325, 325D, 328D, S175, S185	CK23, CK28, CK31, 40XT, 60XT, 1830	CK23, CK28, CK31, 40XT, 60XT, 1830	302-5, 303-5, 216, 226, 228	DH30, SOLAR30, SOLAR035, DSL602	EX25, EX38, EX30, UE30, EX33	1CX, ROBOT 150/160/165/ 165/170/185	SK015, SK15, SK16, SK25	PC10, PC12, PC15, PC20, PC27		HX15SR	RH1.29, RH1.3, RH1.35	EC30, EC25, ZL302C
SP 68 (4~7 Tons)	883, 963, 943, 980, T300, X335 337D, 331(E), A220(S), T200(S), 341D, 442D,	840, 1845, CX35, 70XT, 75XT, 85XT	CK36	303CR, 304-5, 232, 236, 242, 246, 248, 262	DSL702, DSL802	EX34, EX40, UE40	ROBOT190	SK025, SK030, SK035, SK30, SK35	PC30, PW30, PE35		ROBEX450, ROBEX500, ROBEX500W	L4A, RH1.48, RH2.4	EC35, EC45
SP 75 (6~9 Tons)		90XT, 95XT, CX50, 550, 580, 590, 680CK, CK62	CK36CK50, CK62, 488C	416, 420, 426, 428, 430, 438, E70B, 5080, 252, 262, 307 304CR, 305CR	DH50, DSL902 SOLAR50, SOLAR555 SOLAR55V, SOLAR70,	EX40U, EX45, EX50, UE50(e), EX58, EX60, UH02	2CX, 3C/ CX/D, ZL 70, ROBOT1105/ 1110, 407, 408/409/410ZX	SK045, SK050, SK45, SK60, SK70, SK80, SK600, K903	PC40, PC45, PC50, PC60, PC75, PW75, PC80, PC90	L506/507/508/ 509/512/514	ROBEX95W	MH2.5, RH2.5, MH2.8, RH2.8	EC55, EC70, EW50, EW70, L20B/L25B/ L30B/L35B/ L40B/L45B
SP 85 (7~14 Tons)		WX90, 965, CX75, 621D	FC30, FY30, FY488P FC30, FY30	446B, 307, 308, 931	SOLAR80, DH80W	UH04, UH043, EX80, EX90, ZAXIS80	4CX, 416HT	SK60MX, K904, 80CS, SK100	PW95	A308	ROBEX110-V	MH3, RH3, MH2.10, RH2.10	BL74, L50D, 612, 616B
SP 100 (11~16 Tons)		WX120, CX130, CX135,588P, 788F, 880, 888, 9010, 9020	CK60, CK61, 688	E110B, 205, 206, 311, 312, 314, 515, 206BFT, 212BFT	DH130, SOLAR130	EX100, EX110, EX120, EX130, EX135, UH051, UH053, UH061, UH063, ZAXIS120	JS130, JS145, 805, 811, 812, 814, 5C/W	SK115, SK120, SK135, SK150, K120, K150, K904, K905	PC100, PW110, PC120, PC128, PC130, PW130	A/R902, R900, A/R901, R308, A310, A312, A314	HX60W, ROBEX130W, ROBEX35140LC	MH3.5, RH4, MH4, MH4.5	EC130, EW130, SE130, SE130W EW140, 646, L60E, L70E
SP 125 (15~18 Tons)		WX150, CX160, 788RR, 1085	70CK, 80CK, 8CK, 888	214B, E120B, 315, 525B, 535B	SOLAR170, DH170		JS150, JS160, JS175	SK135, SK160 K150	PC150, PW150, PW170	A/R902, A/R900, A316 R310, R312,	ROBEX170W, ROBEX180LC	RH4.5, RH5, MH5	EC140B, EC150, EW150, EW160, L90E
SP 135 SP 140 (18~26 Tons)		CX180, CX210, CX225, CX240, WX170, WX220, CX188FG, 9030, 9040, 1080, 1088, 125B	85CK, 90CK, 115PC, 125CK, 1088, 1188, 6988	215, 219, 224, 225, 318, 320, 321, 322, E/EL180, E/EL220, E/EL240, 517, 527, 545	DH200, SOLAR200, DH220, SOLAR220	EX200, EX210, EX220, EX225, EX230, H801/ 803, UH09(e), UH073, UH103, ZASIX200, ZASIS230	JS180, JS200, SJ210, JS220, JS240, 7B/C, 8C/D	SK270LC, SK290, SK300, SK320, K300, K912	PC180, PC200, PC210, PC220, PC228, PC230, PC240	A/R904, R912, A/R914, A/R921, A/R922, A924, A/R932, R941	HW80, ROBEX200W, ROBEX200LC, ROBEX220LC, ROBEX250LC	MH5.5, RH5.5, MH6, RH6, MH6.5, RH6.5, RH8	EC200, EC210, EC230, EC240 SE210, EW230
SP 150 SP 155 (25~35 Tons)		9045B, CX240, CX290, CX1288, 6050, 9050B, CX330 CX1188FG	1288, SC150L, RC200, 160CK/CL, 170CK-B	229, 325, E/EL300, 229D, 231, 330	DH280, DH320, SOLAR280, SOLAR290, SOLAR320, SOLAR330	ES270, EX280, UH121, UH123, UH143, EX300, EX350, ZAXIS270, ZAXIS330	JS330	SK270LC, SK290, SK300, SK320, K300, K912	PC250, PC280, PC300, PC350	A/R942LIT, A/R934, R924, R932LIT	HX100, ROBEX280LC/ 290LC/300LC/ 320LC/330LC/ 360LC	RH8.5, RH9, RH9.5, RH11, RH12, RH14	EC280, EC290, EC300, SE280, SE350
SP 165 (30~45 Tons)		CX350, CX460, CX1288FG, 170C, 2200B, 9060	22CK/CL, 220CK.B	235, 330BL/CL, 345BL	SOLAR360, SOLAR400, SOLAR450, SOLAR470, DH450	EX370, EX400, EX450, UH171, UH181	JS460	SK330, SK400, SK480, K400, K914, K916	PC360, PC400, PC450	R944, R952, R954, R961, R962	ROBEX360LC, ROBEX420LC, ROBEX250LC	RH160, RH16.5, RH18, RH20, RH25	EC340, EC360, EC390, EC420, EC450, EC460
SP 175 (40~55 Tons)			300CK	50ME, 245, 345, 350, 365		UH120, UH20, EX550, EX600, EX700		SK600	PC600, PC650, PC750	A944, R962LIT, R964, R974	ROBEX500LC	RH23, RH25.5 RH30D	EC620, EC650

PEDESTAL BOOM BREAKER

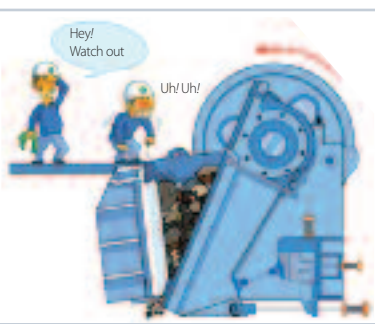






ROCK BREAKER HY'D UNIT

This product is possible to equip to your Jaw-Crusher on Main Body or on any nearby parts of the unit and easy to operate by a beginner.







Inserting Wedge takes over 30min~1hour, under running the machine
The Safety Incident remains always

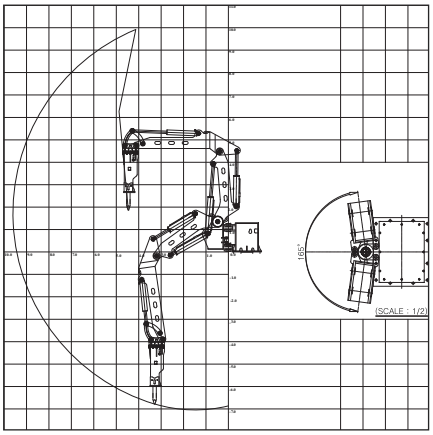
On Running

In order to remove the entered aggregates, put the wedges manually or those heavy cranes carry out the breaker working, then the main shaft and main bearings are over loaded and then this causes shortening of the machines lifespan

- SCRAP CRADDLE

Functioning to remove foreign matters before entering to Feeder from Hopper (Order made) Equipment required to Construction Scrap Companies

1. Removal of entering aggregates 1~2 minutes OK
2. ZERO Safety Accident
3. Improvement of Productivity



SPB 68
Max. Length : 5.5m
Max. Height : 6.5m
Max. Depth : 3.8m
Max. Rotation : 165˚
Working Radius : 165˚

SPB 135(165°)
Max. Length : 9.7m
Max. Height : 10m
Max. Depth : 6.8m
Max. Rotation : 165˚
Working Radius : 165˚

Item		Model	Unit	SPB 68	SPB 135(165°)
Body Frame & Hyd' Power Units	Electric Motor	Horse power	PS	30	61
		Electric power	KW	22	45
		Hertz	Hz	60	60
	Oil Tank	Capacity	Litter	150	500
	Oil Pump	Type	-	single	Tandem
		Pressure	kg/cm²	210	203.9
		Flow rate	lpm	62	109+61
Head Frame	Boom Cylinder	Pressure	kg/cm²	270	270
	Arm Cylinder	Pressure	kg/cm²	230	230
	Link Cylinder	Pressure	kg/cm²	230	230

※The above specifications are subject to change without prior notice for improvement.

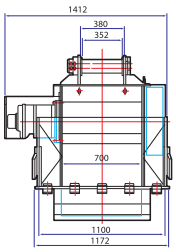
BUCKET CRUSHER

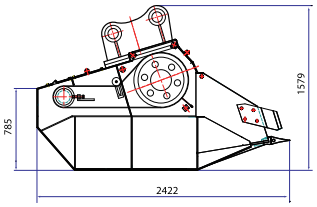





Advantages

- Perfect for on-site crushing of all types of demolition materials
- Fitted to the excavators and working by the hydraulic system
- Reduces the use of mechanical pieces of equipment
- Solves the problem of having to dispose of demolition materials by taking them to a dump
- Eliminates all leasing costs
- Cuts down on transportation and management costs
- Comfortable, simple to use and fast
- Suited for small and large worksites
- Allows materials to be recycled, resulting in significant savings

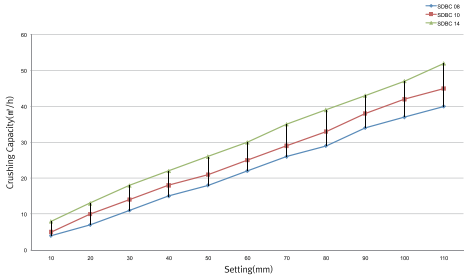






Application Fields

- Demolitions
- Roads Construction
- Excavations
- Quarries and Mines
- Environmental Remediations
- Vineyard Deep-Plowing



Setting(mm)	10	20	30	40	50	60	70	80	90	10	110
SBC 08	4	7	11	15	18	22	26	29	34	37	40
SBC 10	5	10	14	18	21	25	29	33	38	42	45
SBC 14	8	13	18	22	26	30	35	39	43	47	52

Description		Unit	SBC 06	SBC 08	SBC 10	SBC 14	SBC 20
Applicable carrier		ton	9 ~ 16	16 ~ 22	22 ~ 30	30 ~ 45	45 ~ 55
Load capacity		m^3	0.5	0.6	0.8	1	1.2
Operating pressure		Mpa	24.5	24.5	24.5	24.5	24.5
Required oil flow		ℓ	150	150	180	220	250
Bucket loading opening		mm	600×450	700×500	1,050×550	1,250×550	1,450×550
Operating weight		kg	1,700	2,600	3,650	4,950	5,950
Crusher output adjustment	Standard	mm	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120	20 ~ 120
	Extended			20 ~ 150	20 ~ 150	20 ~ 150	20 ~ 150

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VIBRO RIPPER / VIBRO HAMMER

Vibro Ripper

Its excellent performance is from high frequency vibratation. It leads even surrounding material's cracks. Its outstanding performance could not even compare with hydraulic breaker and it will be achieved more efficient works.
The most excellent thing is faster than traditional hydraulic breaker around 3 to 5times and it has minimum noise under 90db. The tooth that made wear-resistant steel will reduce maintenance costs as much as possible.
A variety of tasks including underwater work will be great help to increase at competition.



Vibro-Ripper Benefits

- Higher productivity than Hydraulic breaker.
- Noise level is under 90db.
- Easy replacement tooth(chisel).
- Minimum shock to excavator.
- Simple design and less maintenance.
- Highly reduced fuel consumption.

Job applications.

- Around 70% of Hydraulic breaker works.
- Mining industry.
- Tunnel construction.
- Downtown building.
- Under water operation without option.
- Excavation and Demolition.

Description	Unit	SVR 150	SVR 200	SVR 300	SVR 400
Applicable carrier	ton	11~16	18~26	27~33	33~40
Operating weight	kg	1,500	2,200	2,700	4,000
Frequency	bpm	2,000~2,500	2,000~2,500	2,000~2,500	2,000~2,500
Dimension(L×W×H)	mm	2,000×1,024×607	2,328×1,200×710	2,833×1,463×867	3,150×1,625×963
Hydrulic oil flow	lpm	80~140	130~180	170~200	200~260
Hydrulic working pressure	bar	150~200	180~200	200~250	200~250
Hydrulic return pressure	bar	6	6	6	6
Case drain maximum pressure	bar	4	4	4	4
Accumulator pressure	bar	6	6	6	6

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Vibro Hammer



SPECIAL FEATURES

- Can be directly connected with excavtor (no need crane)
- Superior working efficiency and wide range of works.
- Highly effective BPM with low noise.
- Available in hydraulic breaker piping.
- 360 degrees Rotation

Description	Unit	SVH 250	SVH 300	SVH 400
Applicable carrier	ton	20~28	28~34	33~40
Operating weight	kg	1,600	1,800	1,900
Extension boom weight	kg	600	700	700
Clamping jaw	mm	65	65	65
Frequency	bpm	2,000~2,500	2,000~2,500	2,000~2,500
Slewing degree	degree	360	360	360
Dimension(L×W×H)	mm	1,857×1,042×650	1,959×1,103×792	2,016×1,196×830
Hydrulic oil flow	lpm	130~180	170~200	200~260
Hydrulic working pressure	bar	180~200	200~250	200~250

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CRUSHER / SHEAR







Primary Crusher

Model	Unit	SPC 03V	SPC 05V	SPC 15V	SPC 20V	SPC 25V	SPC 30V	SPC 45V
Operating weight	kg	290	520	1,000	1,400	1,950	2,680	5,000
Opening width of jaw	mm	0~450	0~500	0~800	0~880	0~980	0~1,120	0~1,400
Operating pressure	bar	210	240	260	280	300	320	320
Applicable carrier	ton	2~3	5~7	13~18	20~22	22~25	28~37	35~48

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Secondary Crusher

Model	Unit	SSC 15V	SSC 20V	SSC 25V	SSC 30V	SSC 50V
Operating weight	kg	890	1,500	1,750	2,350	4,200
Opening width of jaw	mm	0~800	0~870	0~980	0~1,120	0~1,280
Operating pressure	bar	260	280	300	300	300
Applicable carrier	ton	13~18	20~22	22~25	28~37	42~47

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Shear

Model	Unit	SSR 400RV	SSR 500RV	SSR 600RV	SSR 700RV
Operating weight	kg	1,800	2,200	3,100	6,000
Opening width of jaw	mm	0~400	0~500	0~700	0~900
Operating pressure	bar	260	300	320	320
Applicable carrier	ton	13~18	18~25	28~37	42~47

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SCRAP GRAPPLE / CLAM SHELL BUCKET

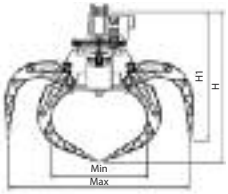
Scrap Grapple

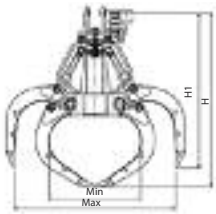


A-TYPE



B-TYPE





A-Type

Model	SSA 600	SSA 800	SSA 1000	SSA 1500
Capa(LT.)	600	800	1,000	1,500
Weight(kg)	1,200	1,560	1,800	2,200
Min	928	961	1,198	1,376
Max	1,774	1,945	2,178	2,513
H	1,535	1,647	1,863	2,081
H1	1,304	1,392	1,600	1,793
Applicable carrier	12~18	18~25	28~35	36~42

B-Type

Model	SSB 600	SSB 800	SSB 1000	SSB 1500	SSB 2000
Capa(LT.)	600	800	1,000	1,500	2,000
Weight(kg)	1,050	1,300	1,500	1,800	2,100
Min	849	969	1,192	1,315	1,705
Max	1,859	1,939	2,013	2,403	2,889
H	1,850	1,970	2,203	2,381	2,639
H1	1,550	1,674	1,969	2,107	2,673
Applicable carrier	12~18	18~25	28~35	36~42	43~47

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Clam Shell Bucket

A-Type

Model	SCA 200	SCA 300	SCA 400	SCA 500
Capa(LT.)	200	300	400	500
Weight(kg)	300	380	560	600
Min	893	893	1,032	1,232
Max	1,342	1,342	1,532	1,665
H	1,154	1,154	1,302	1,302
H1	917	917	1,091	1,196
L	350	500	550	650
Applicable carrier	2~3	3~5	5~7	8~12

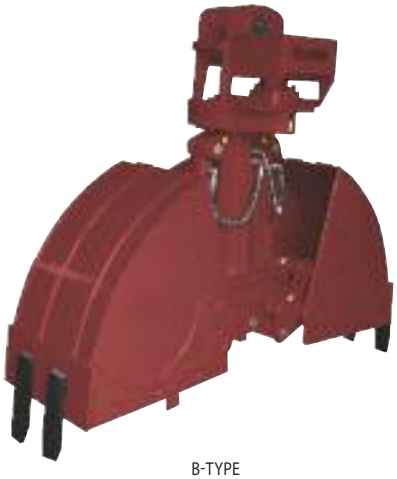
B-Type

Model	SCB 600	SCB 800	SCB 1000	SCB 1500	SCB 2000
Capa(LT.)	600	800	1,000	1,500	2,000
Weight(kg)	720	980	1,200	1,500	1,810
Min	1,752	1,752	1,856	2,151	2,247
Max	2,223	2,223	2,328	2,641	2,735
H	2,200	2,200	2,253	2,404	2,450
H1	1,408	1,408	1,408	1,408	1,425
L	600	800	900	1,200	1,500
Applicable carrier	12~18	18~25	28~35	36~42	43~47

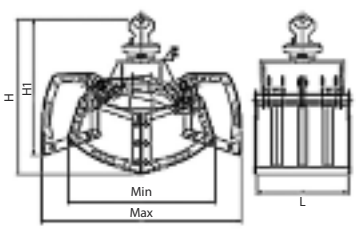
※The above specifications are subject to change without prior notice for improvement.

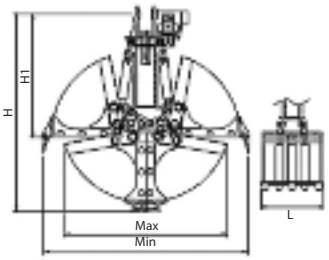


A-TYPE



B-TYPE

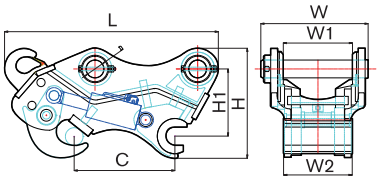




QUICK COUPLER / COMPACTOR

Quick Coupler





Pull Type

Description	Unit	SQ 08	SQ 10	SQ 14	SQ 17	SQ 20
Operating weight	kg	340	520	650	725	890
Length (L)	mm	970	1,080	1,125	1,226	1,285
Height (H)	mm	491	552	584	612	662
Width (W)	mm	469~503	543~593	574~624	630~670	680~710
Installation width (W1)	mm	306~340	350~410	410~432	410~440	470~510

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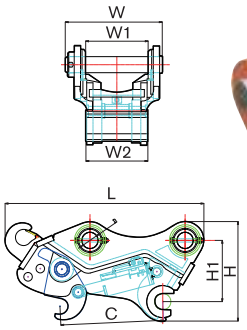
Installation Steps



Push Type

Description	Unit	SQ 03	SQ 06
Operating weight	kg	54~60	150~163
Length (L)	mm	575~593	814~820
Height (H)	mm	285	387
Width (W)	mm	249~259	408~423
Installation width (W1)	mm	155~165	260~275

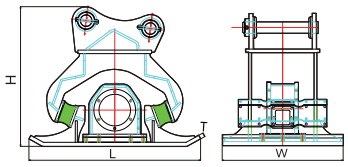
※The above specifications are subject to change without prior notice for improvement.





Compactor







All-in-one block oil flow control valve



Proper high-quality oil pressure motor to all types of models

Model	Impulse force (ton)	Hydraulic folw (rpm)	Capacity (cc/rev)	Operating pressure (bar)	L×W×T (mm)	H (mm)
STC 06	6.5	600~2,000	63	100~130	1,160×700×28	920
STC 08	15	600~2,000	80	150~200	1,350×900×30	1,060
STC 10	15	600~2,000	100	150~200	1,350×900×30	1,100

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AUGER



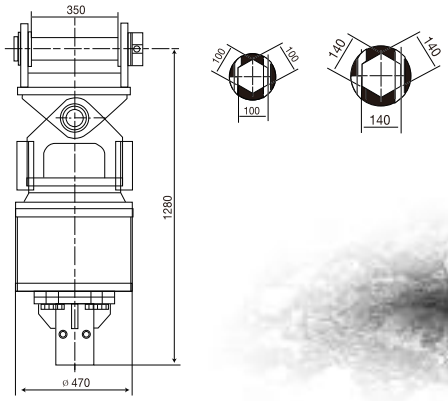




Auger

SDS Series

- High output torque using high speed hydraulic motor
- Easy mounting and dismounting on 5~45 ton excavator at anytime
- Utilizes crusher Hydraulic line
- Much deeper drilling is possible with extension boom mounting
- Can be applied for ground release drilling, ground investigation, before sheet piles.



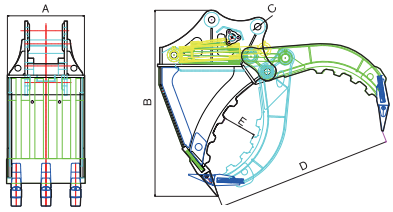
Model	SDS 2000	SDS 2500	SDS 3000	SDS 3500	SDS 4500	SDS 6000	SDS 7000	SDS 11000	SDS 15000	SDS 17500	SDS 20000	SDS 23000	SDS 27500
Applicable carrier	1.2~2.5T	1.5~3T	2~3.5T	2.5~4.5T	4.5~6T	5~8T	6~13T	8~15T	8~15T	10~17T	13~17T	13~20T	15~23T
Continuous working pressure	170	170	170	170	205	205	205	205	205	205	205	205	205
Intermittent working pressure	310	310	260	260	310	310	310	310	310	310	310	310	310
Required oil flow	25 - 50	25 - 60	30 - 72	30 - 75	50 - 75	60 - 100	70 - 100	70 - 120	70 - 120	80 - 150	80 - 150	80 - 150	100 - 170
Continuous working torque	1,080	1,389	2051	2,448	2,734	4,297	4,520	7,331	9,371	11,858	12,319	15,587	19,358
Intermittent working torque	1,960	2,470	2,933	3,616	4,390	6,082	7,012	10,965	15,045	17,276	19,777	22,710	27,403

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FIXED STONE GRAPPLE / ROTATING STONE, WOOD GRAPPLE

Fixed Stone Grapple





- Handling of seawalls, stones and many others are all available.
- Multipurpose function to prevent slipping
- Available to work with many kinds of stone (Option)
- Available to classify soil cement and stone (Option)

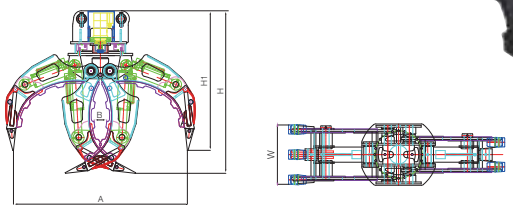
Model	Applicable carrier (ton)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Operating weight (kg)
SFS 03	5~7	430	1,112	45	1,121	170	305
SFS 06	12~15	636	1,536	65	1,458	276	730
SFS 08	18~22	800	1,849	70~80	1,927	32	1,430
SFS 10	28~31	833	1,976	80~90	2,136	376	1,860

※The above specifications are subject to change without prior notice for improvement.

Rotating Stone Grapple

- Carrying rocks and excellent performance in loading
- Strong power and a crash-cushion on high pressure cylinder
- Excellent abrasion resistance and high gradient prolong its life
- Swing bearing shock absorber
- The safety check valve in cylinder prevents the grabbed material from falling down.

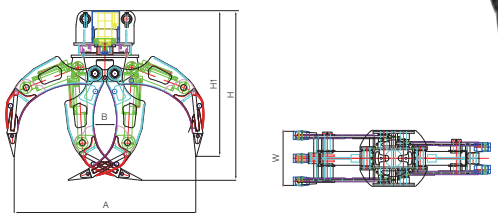




Model	Applicable carrier (ton)	Max jaw opening (kg)	Operating pressure (bar)	Operating weight (kg)
SRS 03	4~7	1,290	120~190	365
SRS 06	11~16	1,700	150~200	850

※The above specifications are subject to change without prior notice for improvement.





Rotating Wood Grapple

- Outstanding performance on loading at the logging place
- High use in various works
- During the swing work, it prevents the grabbed material from falling down by grabbing more safely even when the machine is stopped

Model	Applicable carrier (ton)	Max jaw opening (kg)	Operating pressure (bar)	Operating weight (kg)
SRW 03	4~7	1,290	120~190	365
SRW 06	11~16	1,700	150~200	850

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