

Feel the sound of Silence & Power!

Control Valve

Built in the cylinder body and requires fewer parts and less maintenance.

Air Check Valve

Underwater operation is available on all SB-plus series.

Auto Lubrication Port

Located on the upper part of breaker to prevent the damage on the connecting hose. (SB45TS-P ~ SB151TS-P)

Upper Cushion

Urethane damper minimizes recoils to operator cabin as well as the carrier's arm

N2 gas chamber

Optimally matched seals retain the nitrogen gas pressure and continue the high power

Valve Adjuster

Easy to adjust the impact rate. (SB60TS-P ~ SB151S-P)

Piston

Rod

Reinforced by Hardox Steel

Excellent wear-resistance

In-house Production and Heat Treatment



Heat Treatment Facilities



Service Center



Parts Warehouse



Test Rig

Allows continuous technical developments, makes harmonized-quality control.

Strict quality test for choosing materials

All materials can be used through strict quality test. Especially, the material of piston, which is the most important part of a breaker, was developed jointly by SOOSAN and a special steel manufacturer to secure the top quality and quality control.

Manufacture with precision machinery

Major components are manufactured by computerized automatic machinery. The standardized tolerance and clearance leads to continue top quality.

In-house heat treatment know-how from years of experiences

Major components are heat-treated by our own know-how and various facilities.

- Piston : Plasma carburizing
- Cylinder : Plasma nitriding
- Heat treatment process is separated by components' weight, thickness and applications.

Final test for all breakers

All breakers are tested in accordance with ISO Quality Control System before delivery.



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Hydraulic Breaker SB-plus Series



SB-plus series

The Concept of Power, Simplicity, Durability and Reliability.

Technical improvements, enhanced total quality management and product support.

Highest power to weight ratio

SOOSAN breakers are most powerful and lighter than other same-class breakers.

Patented unique valve system-simple hydraulic circuit

Well harmonized with simplified hydraulic circuit. It needs less oil flow, makes high efficiency and allows reliable operation.

Fewer components, less maintenance

Simple structure of SB-plus series enables the customers to reduce the maintenance cost.

Fully closed frame with noise -vibration dampening system

Robust and fully closed structure with dampening materials reduce the noise level and provide operator's comfort. It also minimizes the recoils to the carrier's arm.



Technical Specification

DESCRIPTION	MODEL	COMPACT RANGE				MEDIUM RANGE						HEAVY-DUTY RANGE					
		SB10TS-P	SB20TS-P	SB30TS-P	SB35TS-P	SB40TS-P	SB43TS-P	SB45TS-P	SB50TS-P	SB60TS-P	SB70TS-P	SB81TS-P	SB100TS-P	SB121TS-P	SB130TS-P	SB140TS-P	SB151TS-P
Operating Weight	kg	102	126	152	224	295	375	571	861	1297	1500	1766	2071	2632	2833	3090	3991
	lb	225	278	335	494	650	827	1259	1898	2859	3307	3893	4566	5803	6246	6798	8799
Height (Incl. Tool)	mm	1135	1262	1342	1472	1600	1859	2101	2326	2604	2691	2828	3052	3254	3393	3460	3709
	inch	45	50	53	58	63	73	83	92	103	106	111	120	128	134	136	146
Operating Pressure	bar	90~120	90~120	90~120	100~130	110~140	120~150	130~160	150~170	150~170	160~180	160~180	160~180	160~180	160~180	160~180	160~180
	psi	1280~1707	1280~1707	1280~1707	1422~1849	1565~1991	1707~2134	1849~2276	2134~2418	2134~2418	2276~2560	2276~2560	2276~2560	2276~2560	2276~2560	2276~2560	2276~2560
Oil Flow Range	l/min	15~30	20~40	25~50	30~60	40~70	50~90	60~100	80~110	90~120	100~150	120~180	150~210	180~240	200~260	200~260	210~290
	gal/min	4~8	5~10.5	6.5~13	8~16	10.5~18.5	13~24	16~26.5	21~29	24~32	27~40	32~48	40~56	48~63	51~69	51~69	55~77
Impact rate	bpm	800~1400	700~1200	600~1100	500~1000	500~900	400~800	400~800	350~700	350~650	350~600	350~500	300~450	300~450	250~400	250~350	200~350
Hose Diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4
Rod Diameter	mm	40	45	53	60	68	75	85	100	125	135	140	150	155	165	165	175
85dB(A) radius	m	3~5	3~6	4~8	5~10	5~10	6~12	6~12	7~14	10~18	16~22	16~22	21~30	26~35	35~40	35~40	38~45
Applicable Carrier	ton	0.8~2.5	1.2~3.0	2.5~4.5	3.0~5.5	4.0~7.0	6~9	7~14	11~16	15~18	18~21	18~26	25~30	28~35	30~45	32~50	40~55
		Mini-Excavators (Max 5tons) / Skid-Steer Loaders(Max 5tons)															
		Backhoe-Loaders (Max 14tons)															
		Excavators (Over5tons)															

The above specifications are subject to change Without prior notice for the quality enhancement.