



SB Line TS-P Series

SOOSAN HYDRAULIC BREAKERS

SB Line TS-P Series

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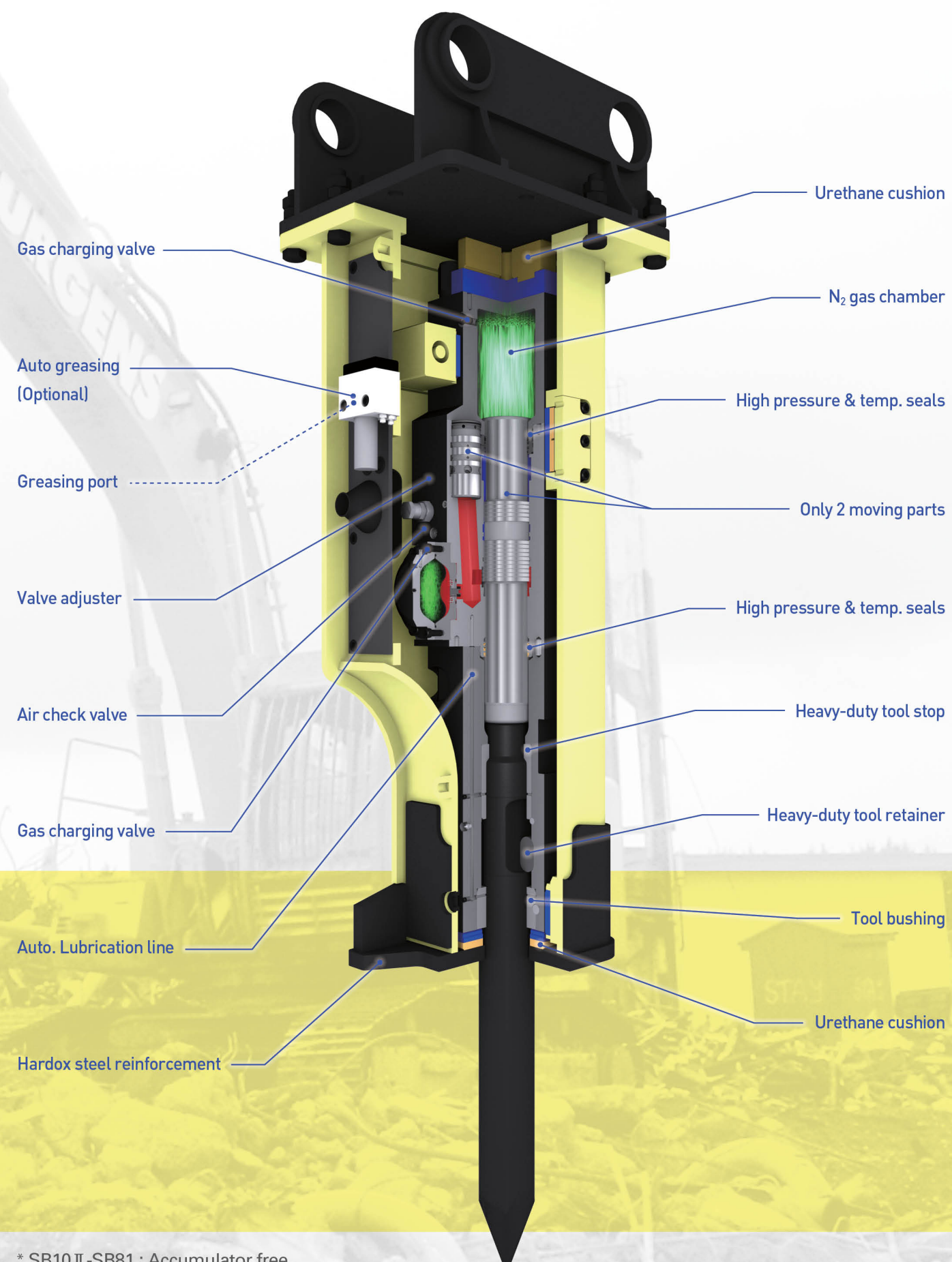
Noise suppression design reduces noise emission, TS-P series

Since the first hydraulic breaker rolled out from our factory back in 1984, Soosan hydraulic breakers have received recognitions for its superb performance from worldwide customers.

TS-P series fully isolates the power-cell with premium quality urethane cushions and wear plates which absorb shock and vibration resulting in reduced noise emission and failures. Moreover, the fully enclosed housing, dust protector and slim profile with robust structure, deliver better visibility, reduced dirt entry and high durability.

Special Features ; TS-P series

- Improved vibration damping system
- Slim profile with robust structure
- Fully enclosed robust housing
- Highest power to weight ratio
- Low operating cost



* SB10 II-SB81 : Accumulator free

* SB81A-SB157 : Only include

Technical improvements, enhanced total quality management and product support



Highest power to weight ratio

Soosan breakers are more powerful and lighter than other same class breakers.

Patented unique valve system - simple hydraulic circuit

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

Fewer components - less maintenance

Simple design of TS-P series enables the customers to reduce maintenance cost.

Fully closed housing with noise vibration damping system

Robust and fully closed structure with damping materials reduces the noise level and provides operator's comfort.

It also minimizes the recoils to the carrier's arm.



In-house production and heat treatment

Allows continuous technical developments, maintain homogenizing quality level



The selection of materials through the close quality test

: Cylinder, Front head and Piston etc.



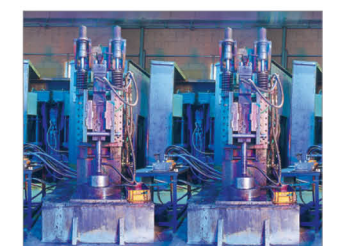
Machining : MCT process

- Major components are manufactured by computerized automatic machinery.
- Allows standardized tolerance and clearance.



Heat Treatment

Most of the components are heat-treated by our own know-how and facilities.

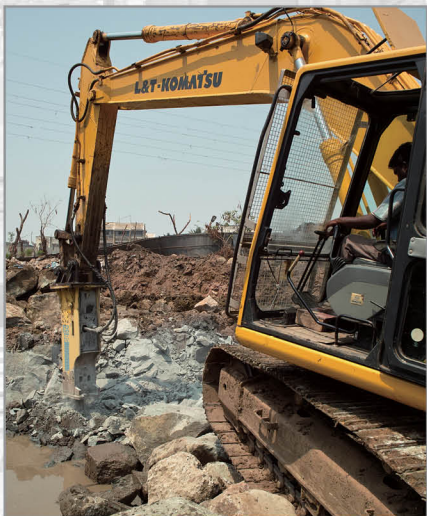
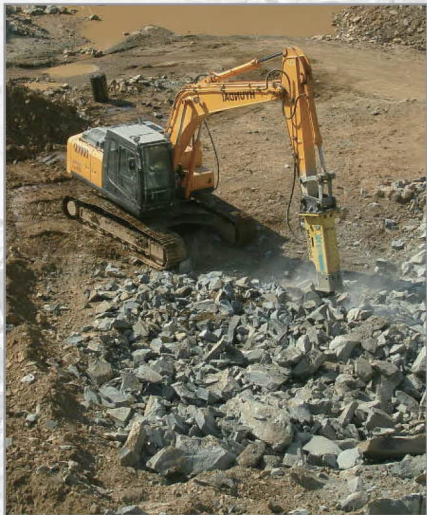


Main body test shop

All breakers are tested in accordance with ISO quality control system before delivery.



SB Line TS-P series



Features & advantages ;

- High-efficiency “SB”percussion system
- Auto greasing connection (from SB60 TS-P)
- Fully enclosed housing with robust structure
- Vibration & noise damping system
 - Urethane cushions and wear plates
 - Operator-friendly : less recoil & less noise
- Hardox reinforced housing
- Valve adjuster for impact rate control (SB60 TS-P~SB157 TS-P)

Applications ;

Compact range

- Building renovation
- Landscaping, gardening
- Trenching
- Demolition, non reinforced concrete
- General construction works

Medium & Heavy-duty range

- Primary and secondary breaking in quarry
- Site preparation, foundation works
- Road construction
- Demolition works, highly reinforced concrete
- Trenching
- Tunneling
- Bench leveling
- General construction works



The concept of power, simplicity, durability and reliability

Specifications

Description	Unit	SB10 II TS-P	SB20 II TS-P	SB30 II TS-P	SB35 II TS-P	SB40 II TS-P	SB43 II TS-P	SB45TS-P	SB50TS-P
Impact Energy Class	ft/lb	200	350	400	500	750	1,000	1,200	2,000
Operating Weight	lb (kg)	225 (102)	278 (126)	335 (152)	494 (224)	650 (295)	827 (375)	1,259 (571)	1,898 (861)
Required Oil Flow	gal/min (ℓ/min)	4~8 (15~30)	5.3~10.6 (20~40)	6.6~13.2 (25~50)	7.9~16 (30~60)	10.6~18.5 (40~70)	13.2~23.8 (50~90)	15.9~26.4 (60~100)	21.1~29.1 (80~110)
Operating Pressure	psi (kg/cm²)	1,280~1,707 (90~120)	1,280~1,707 (90~120)	1,280~1,707 (90~120)	1,422~1,849 (100~130)	1,565~1,991 (110~140)	1,707~2,134 (120~150)	1,849~2,276 (130~160)	2,134~2,418 (150~170)
Impact Rate	bpm	800~1,400	700~1,200	600~1,100	500~1,000	500~900	400~800	400~800	350~700
Hose Diameter	in	3/8, 1/2	3/8, 1/2	1/2	1/2	1/2	1/2	3/4	3/4
Tool Diameter	in (mm)	1.6 (40)	1.8 (45)	2.1 (53)	2.4 (60)	2.7 (68)	3 (75)	3.3 (85)	3.9 (100)
Applicable Carrier	lbs (ton)	1,760~5,500 (0.8~2.5)	2,700~6,700 (1.2~3.0)	5,600~10,000 (2.5~4.5)	6,600~12,000 (3.0~5.5)	8,800~16,000 (4.0~7.0)	13,300~20,000 (6~9)	15,500~31,000 (7~14)	24,500~36,000 (11~16)
Noise Level	dB	105.5	106.8	108.5	116.9	108.7	114.5	112	113.5

Description	Unit	SB60TS-P	SB70TS-P	SB81TS-P	SB100TS-P	SB121TS-P	SB130TS-P	SB140TS-P	SB157TS-P
Impact Energy Class	ft/lb	3,000	4,000	5,000	6,000	7,500	8,500	10,000	12,000
Operating Weight	lb (kg)	2,859 (1,297)	3,307 (1,500)	3,893 (1,766)	4,566 (2,071)	5,803 (2,632)	6,246 (2,833)	6,812 (3,090)	9,007 (4,085.5)
Length	in (mm)	102 (2,592)	106 (2,682)	111 (2,813)	121 (3,063)	127 (3,215)	134 (3,392)	137 (3,475)	149 (3,736)
Required Oil Flow	gal/min (ℓ/min)	23.8~31.7 (90~120)	26.4~39.6 (100~150)	31.7~47.6 (120~180)	39.6~55.5 (150~210)	47.6~63.4 (180~240)	50.8~68.7 (200~260)	50.8~68.7 (200~260)	55.5~76.6 (210~290)
Operating Pressure	psi (kg/cm²)	2,134~2,418 (150~170)	2,276~2,560 (160~180)	2,276~2,560 (160~180)	2,276~2,560 (160~180)	2,276~2,560 (160~180)	2,276~2,560 (160~180)	2,276~2,560 (160~180)	2,276~2,702 (160~190)
Impact Rate	bpm	350~650	350~600	350~500	300~450	300~450	250~400	250~350	200~350
Hose Diameter	in	1	1	1	1	1¼	1¼	1¼	1¼
Tool Diameter	in (mm)	4.9 (125)	5.3 (135)	5.5 (140)	5.9 (150)	6.1 (155)	6.5 (165)	6.5 (165)	6.9 (175)
Applicable Carrier	lbs (ton)	33,000 ~40,000 (15~18)	40,000 ~46,000 (16~21)	40,000 ~58,000 (18~26)	55,000 ~66,000 (25~30)	62,000 ~77,000 (28~35)	66,000 ~100,000 (30~45)	71,000 ~110,000 (30~45)	88,000 ~121,000 (40~55)
Noise Level	dB	115	120	118	120	123	124	124	125

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