

SOOSAN HYDRAULIC BREAKERS

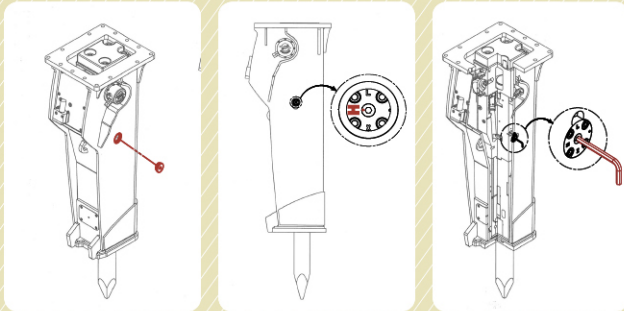
SQ Line Silenced Series



SOOSAN

IPC & ABH SYSTEM CONTROL

| Technical Specifications SQ line |



Selector Switch offers three operating modes and can be simply altered to each mode :

- **H – mode** : Long stroke with maximum power, ABH is off
- **L – mode** : Short stroke with maximum frequency, ABH is off
- **X – mode** : Long stroke with maximum power, ABH is on
(Blank hammering → Auto stop)
- **Easy start**

Power control & Anti blank hammering system

H – mode : Long stroke & Extra power, ABH is OFF

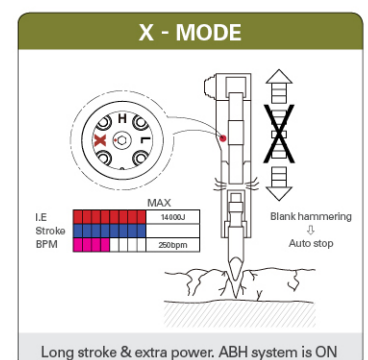
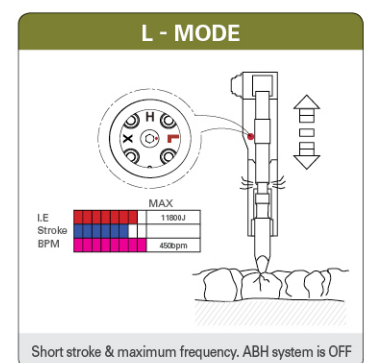
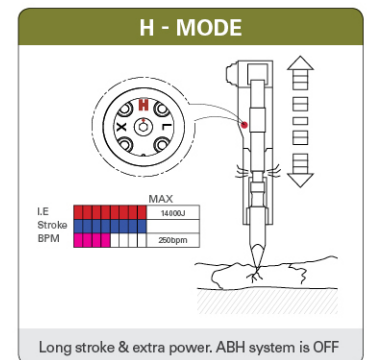
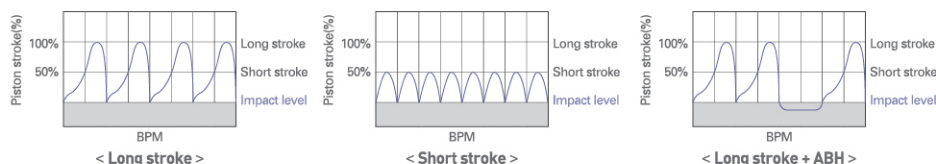
- Mode used for hard rock breaking such as primary breaking, trench works and foundation works where the rock condition is constant.
- Hammer can be started without applying contact pressure to the working tool.

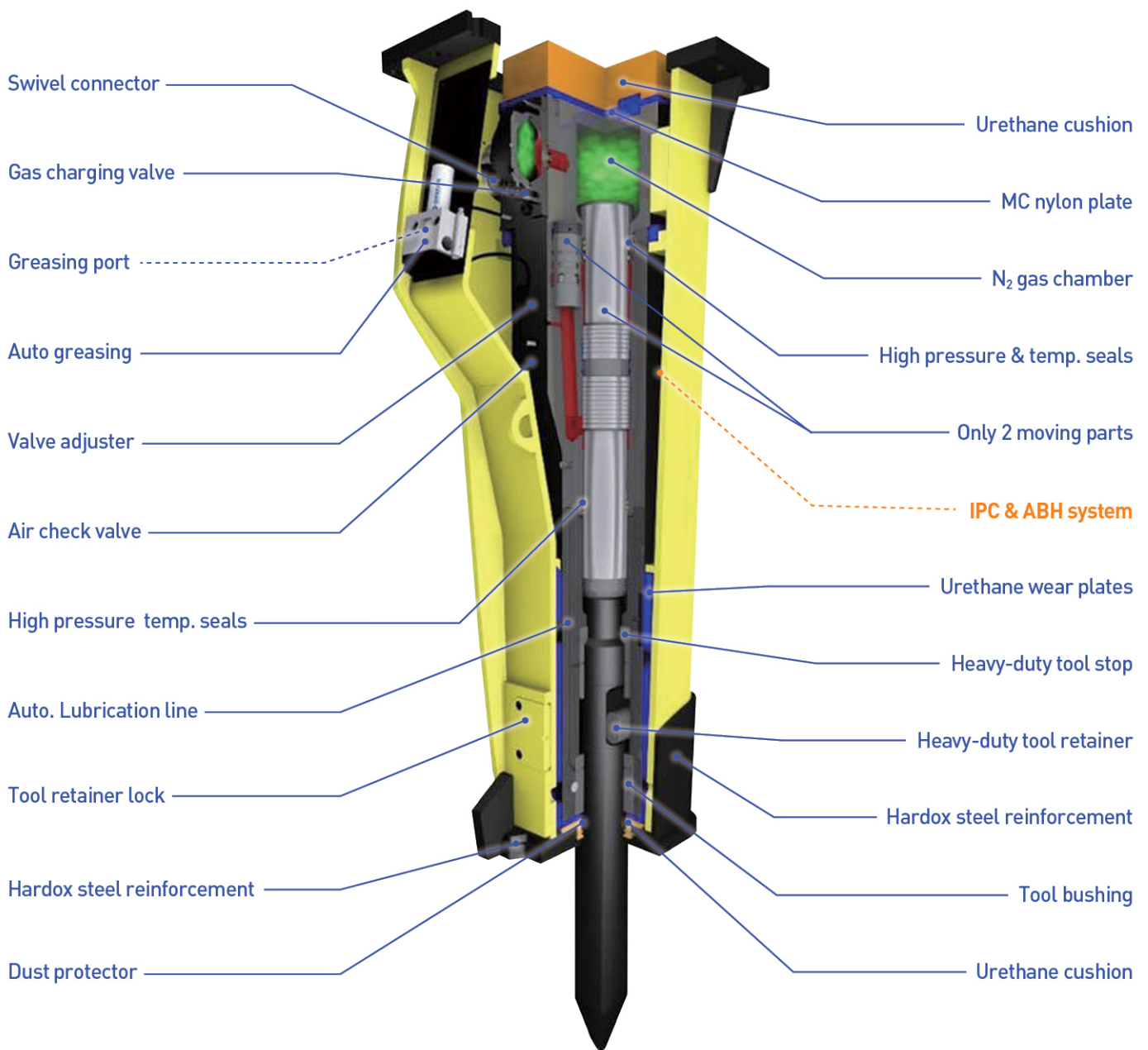
L – mode : Short stroke & Maximum frequency, ABH is OFF

- Hammer can be started without applying contact pressure to the working tool.
- This mode is used for soft rock and semi-hard rock breaking.
- High impact frequency and normal power provides higher productivity and reduces strain on the hammer and the carrier

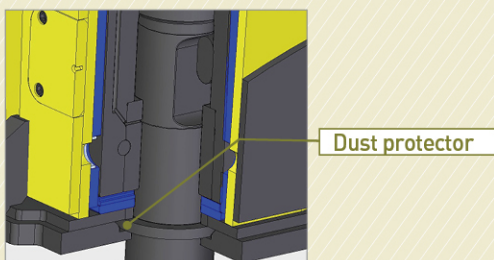
X – mode : Long Stroke & Extra power, ABH is ON

- This mode is used for hard rock breaking such as primary breaking, trench work, and secondary reduction works, where the rock condition is not constant.
- In ABH (Anti-blank hammering) working mode, it switches off the hammer automatically and prevents the blank hammering, as soon as the material is broken.
- The hammer can be easily restarted when minimal contact pressure is applied to the working tool.
- The ABH system reduces strain on the hammer and the carrier.

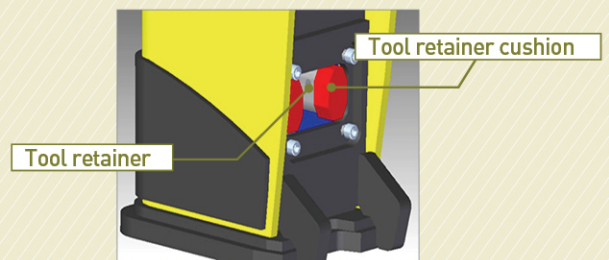




- Dust protector reduces the noise level and dirt incoming



- Improved tool retaining system.



Advanced design technology for output energy

The well known powerful performance of the SB breakers is continued on the SQ line. With improvements to the percussion mechanism allows even more reliable and durable operation than the SB line.

Slim profile with robust structure

State of art slim profile for better visibility in narrow trench work. Hardox steel reinforcements at the lower end of the housing, protect the casing and power cell.

Improved vibration damping system

Fully isolated power cell with premium quality urethane cushions and wear plates absorbs shock and vibration resulting in reduced wear.

Fully enclosed housing and dust protector

For quieter operation and reduced dirt contamination.

Enhanced performance & productivity

By using a valve adjuster and an advanced power control system, SQ breakers can be adjusted to the excavator's specifications and jobsite conditions to enable maximum productivity.

Service and maintenance friendly

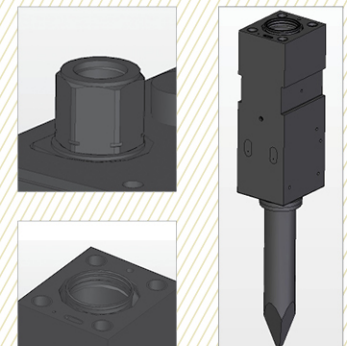
The greasing port is located on the service panel. The service panel gives direct and easy access to key components without removing the power cell from the housing.

Locking device for the tie bolt nut

This prevents the power cell from consequential damage that may be caused by the loosening of the tie bolt.

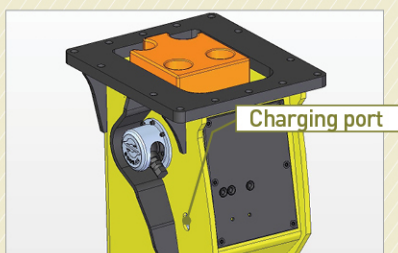
High power to weight ratio

The use of high quality materials and high technology results in less weight, and higher performance.

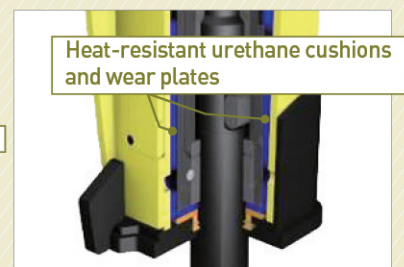
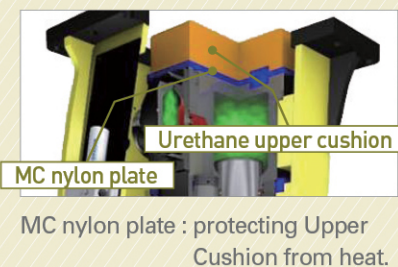


- Tie rods with helisert coil
- Larger cross-sectional area reduces the possibility of crack on Front Head even under extreme working condition

- Nitrogen gas is rechargeable without window cover removal



- Improved vibration damping system





Medium & Heavy duty range of breakers

| Technical Specifications SQ line |



Special Features

IF Design Award – Winner

- Advanced power control & anti blank hammering system
- Premium quality materials
- Enhanced performance, productivity and durability
- Improved vibration-noise damping system
- Robust housing including dust protector
- Reduced noise levels

Applications ;

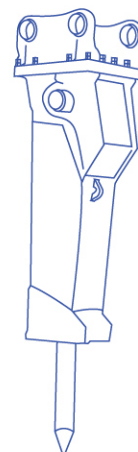
- Primary and secondary breaking in quarries
- Site preparation, foundation works
- Road construction
- Demolition works, highly reinforced concrete
- Trenching
- Tunneling
- Bench leveling
- General construction works

Medium range ;

For excavators from 15 ~ 25 ton

Heavy-duty range ;

For excavators from 21 ~ 100 ton



Specifications

Description		Unit	SQ60	SQ70	SQ80	SQ100	SQ120
Operating weight		kg (lbs)	1,607 (3,543)	1,759 (3,878)	2,053 (4,526)	2,185 (4,817)	2,671 (5,889)
Carrier weight		ton (lbs)	15~18 (33,069~39,683)	16~21 (35,274~46,297)	18~26 (39,683~57,320)	25~30 (55,116~66,139)	28~35 (61,729~77,162)
Height		mm (inch)	2,561 (101)	2,656 (105)	2,806 (110)	2,924 (115)	3,168 (125)
Required oil flow		l / min (g / min)	90~120 (23.8~31.7)	100~150 (26.4~39.6)	120~180 (31.0~47.0)	150~210 (40.0~55.0)	180~240 (47.6~63.4)
Operating pressure		bar (psi)	150~170 (2,134~2,418)	160~180 (2,276~2,560)	160~180 (2,276~2,560)	160~180 (2,276~2,560)	160~180 (2,276~2,560)
Impact rate	H-mode	bpm	350~650	350~600	350~500	300~450	300~450
	L-mode		600~850	500~850	500~700	430~580	430~580
Tool diameter		mm (inch)	125 (4.9)	135 (5.3)	140 (5.5)	150 (5.9)	155 (6.1)

Description		Unit	SQ130	SQ140	SQ150	SQ181
Operating weight		kg (lbs)	3,033 (6,687)	3,169 (6,986)	3,950 (8,708)	5,889 (12,983)
Carrier weight		ton (lbs)	30~45 (66,139~99,208)	30~45 (66,139~99,208)	40~55 (88,185~121,254)	50~90 (110,231~198,416)
Height		mm (inch)	3,360 (132)	3,441 (135)	3,677 (145)	4,112 (162)
Required oil flow		l / min (g / min)	200~260 (52.8~68.7)	200~260 (50.8~68.7)	210~290 (55.5~76.6)	350~450 (93~119)
Operating pressure		bar (psi)	160~180 (2,276~2,560)	160~180 (2,276~2,560)	160~180 (2,276~2,560)	180~200 (2,560~2,845)
Impact rate	H-mode	bpm	250~400	200~350	200~350	200~300
	L-mode		380~550	300~500	320~470	300~400
Tool diameter		mm (inch)	165 (6.5)	165 (6.5)	175 (6.9)	200 (7.9)