

The most advanced
hydraulic breaker in
the world

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Application

Primary Breaking

Breaking bedrock, large size rock and boulders :A30~A70
Quarry, mining, road construction, site preparation, trenching

Secondary Breaking

Breaking large size rock into small pieces
before processing :A13 ~ A55

Floor preparation

asphalt, concrete breaking : A2 ~A15

Demolition

Demolish various grades of concrete, brick,
block structure : A2 ~ A24





Product range and specification

TopBox/SideType, Small & Medium Breakers

Description		Unit	AYA2	AYA4	AYA6	AYA12	AYA15
Operating weight*		kg	190	280	350	920	1170
Tool diameter		mm	57	70	75	105	115
2 nd relief setting pressure**		kg/cm ²	175	175	175	210	210
Operating pressure		kg/cm ²	90~120	110~165	120~165	140~180	160~190
Oil flow		lpm	20~70	30~65	38~80	70~125	90~130
Blow rate	Long/s	bpm	600~1490	550~1300	380~1100	350~600	320~550
	Short/s	bpm	—	—	—	600~900	400~700
Accumulator gas pressure		kg/cm ²	—	40~50	40~50	55~60	55~60
Suitable carrier		ton	1.5~4.0	3.0~6.0	4.5~8.0	10~15	12~18

Note) *Operating weight excluding quick coupler and pins, **2nd relief valve pressure guide based on carrier



Product range and specification

TopBox/Side type, Medium & Large breakers

Description		Unit	AYA20	AYA22	AYA24	AYA30	AYA36	AYA43	AYA55	AYA70
Operating weight*		kg	1600	1820	2050	2500	2800	3400	3900	7100
Tool diameter		mm	135	135	145	150	155	165	175	205
2 nd relief setting pressure**		kg/cm ²	210	210	210	210	230	230	230	210
Operating pressure		kg/cm ²	160~190	160~190	160~190	160~190	160~190	150~190	160~190	170~210
Oil flow		lpm	120~155	120~165	130~180	160~210	175~245	190~250	200~272	350~420
Blow rate	Long/s	bpm	320~480	340~450	270~400	250~380	230~400	230~345	230~330	280~350
	Short/s	bpm	400~600	420~550	330~500	300~450	270~470	270~410	270~500	320~500
Accumulator gas pressure		kg/cm ²	55~60	55~60	55~60	55~60	55~60	55~60	55~60	55~60
Suitable carrier		ton	18~24	20~26	23~30	25~36	28~42	34~50	40~60	60~100

Note) *Operating weight excluding quick coupler and pins, **2nd relief valve pressure guide based on carrier



Specific features and options

Description	AYA2	AYA4	AYA6	AYA12	AYA15
Blank firing protection			● *		●
Two-level speed control				●	●
Large capacity of accumulator		●	●	●	●
Large diameter of through-bolt				●	●
Large diameter of side-bolt ***	●	●	●	●	●
High tensile bottom-bush	●	●	●	●	●
Patented power cell holding system**		●	●	●	●
Low noise enclosure**	●	●	●	●	●
Auto-Lube system*			●	●	●

Note) * : Optional, ** : Top mounting type only , *** : Side mounting type only



Specific features and options

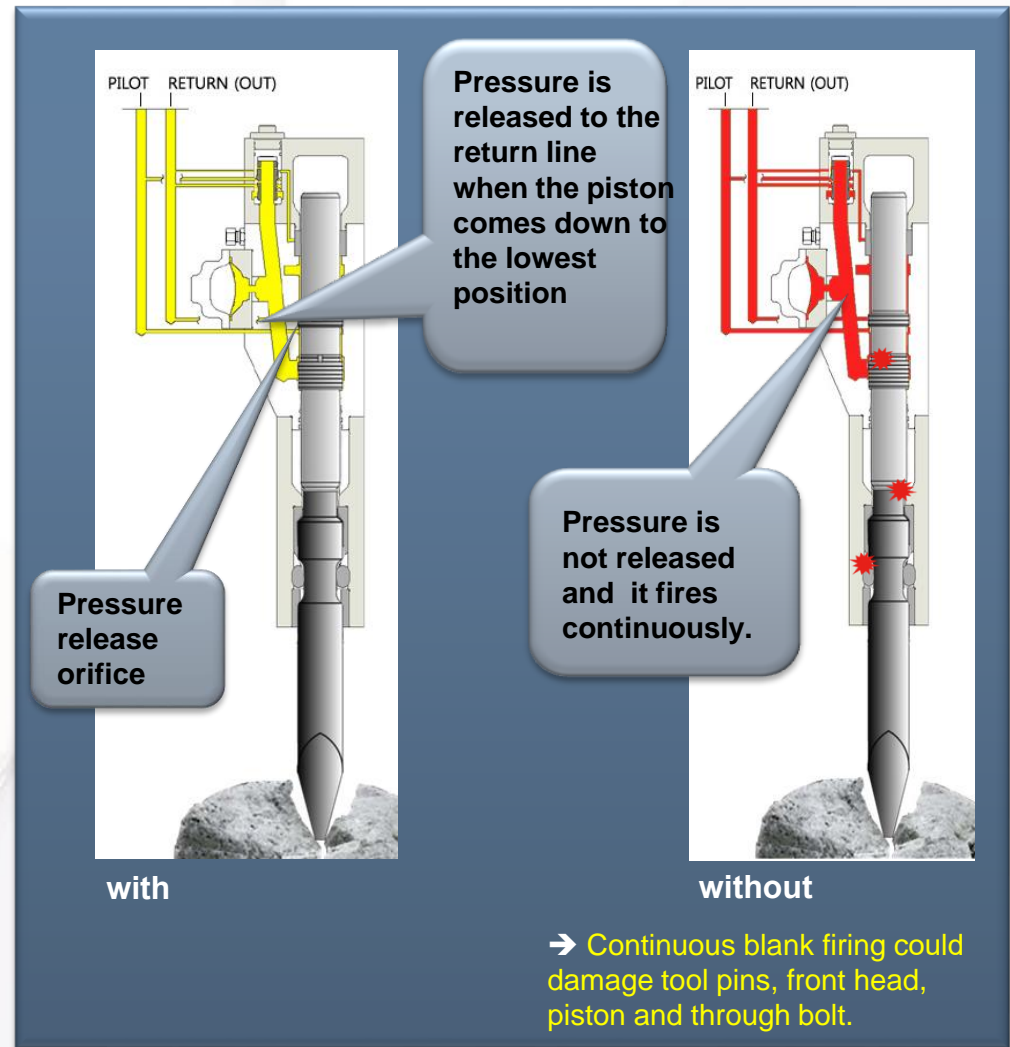
Description	AYA20	AYA22	AYA24	AYA30	AYA36	AYA43	AYA55	AYA70
Blank firing protection	●	●	●	●	●	●	●	●
Two-level speed control	●	●	●	●	●	●	●	●
Large capacity accumulator	●	●	●	●	●	●	●	●
Large diameter through-bolt	●	●	●	●	●	●	●	●
Large diameter side-bolt ***	●	●	●	●	●	●	●	●
High tensile bottom-bush	●	●	●	●	●	●	●	●
Patented power cell holding system**	●	●	●	●	●	●	●	●
Low noise enclosure**	●	●	●	●	●	●	●	●
Auto-Lube system*	●	●	●	●	●	●	●	●

Note) * : Optional, ** : Top mounting type only , *** : Side mounting type only



AY Breaker Advantage-1 : Blank firing protection

- Stop breaking as soon as the material is broken through and ensure the inside of breaker shock free.
- Prevent the key breaker components from shock
 - > Prolong durability and lifetime of the breaker
 - > Provide much less maintenance and service costs



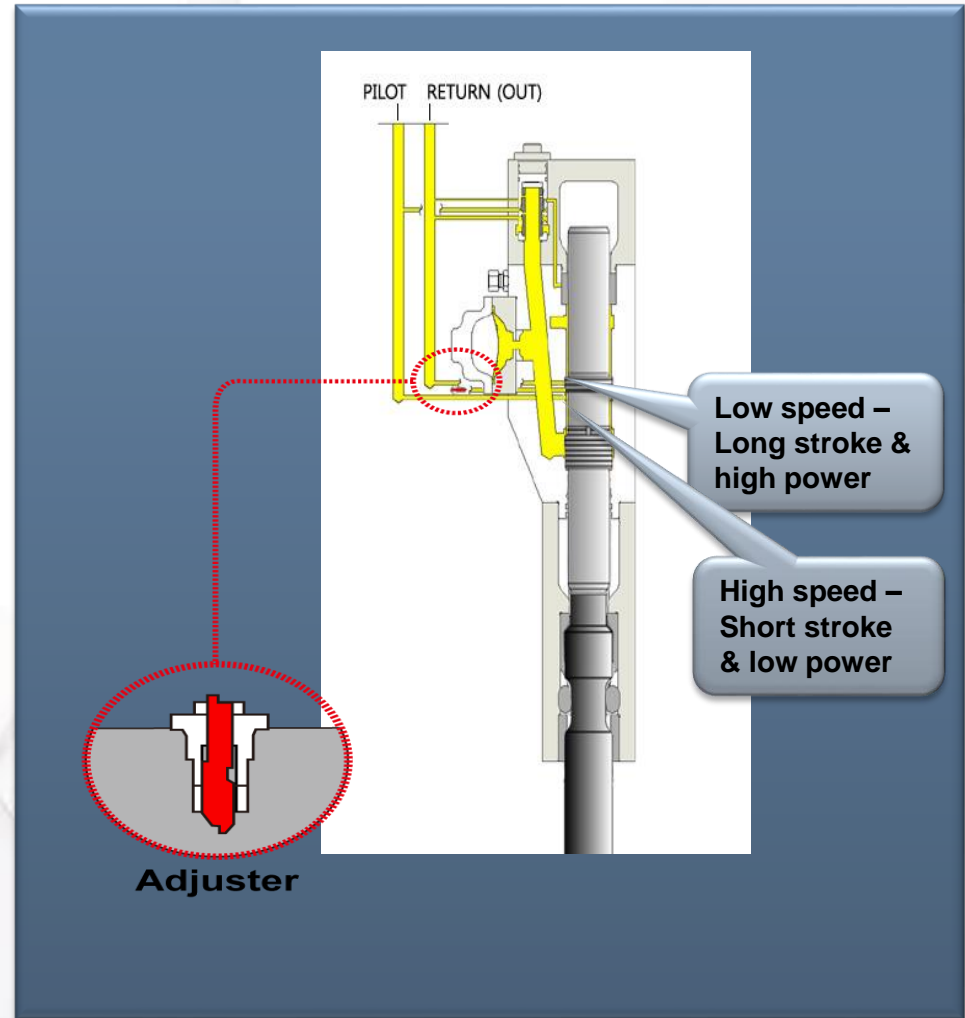


AY Breaker Advantage-2 : Two-level Speed Control

- 2 modes of breaking speed adjustment (Low/High)
 - Optimize breaker performance and speed, depending on job condition or material hardness
- **more productive**

Low : Hard material , Rock , Concrete

High : Soft material , Asphalt, Brick





AY Breaker Advantage-3 : Large Capacity of Accumulator

- Absorbs sharp peak pressure during operation
- Reduces risk of damage on the carrier's hydraulic and mechanical components.

→ **lower carrier maintenance costs**

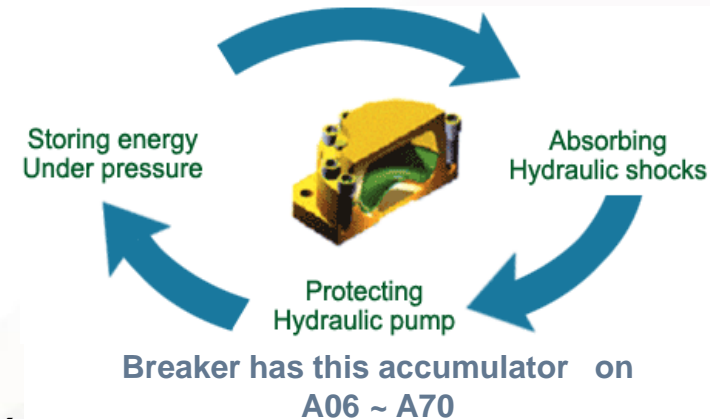
- Additionally provides accumulated pressure back to the high pressure line when piston transfers impact to the tool.

→ **increases impact power**

- Larger capacity than competitors

→ **longer lifetime of diaphragm and lower maintenance costs**

- Installed on 5 ton & above (A6 & above) while competitors offer it on 20 ton & above range (A22 & above)





AY Breaker Advantage-4 : Large Diameter of Through Bolt

- Through bolt diameter is larger than any other competitors.
This will minimize any types of through bolt failure.

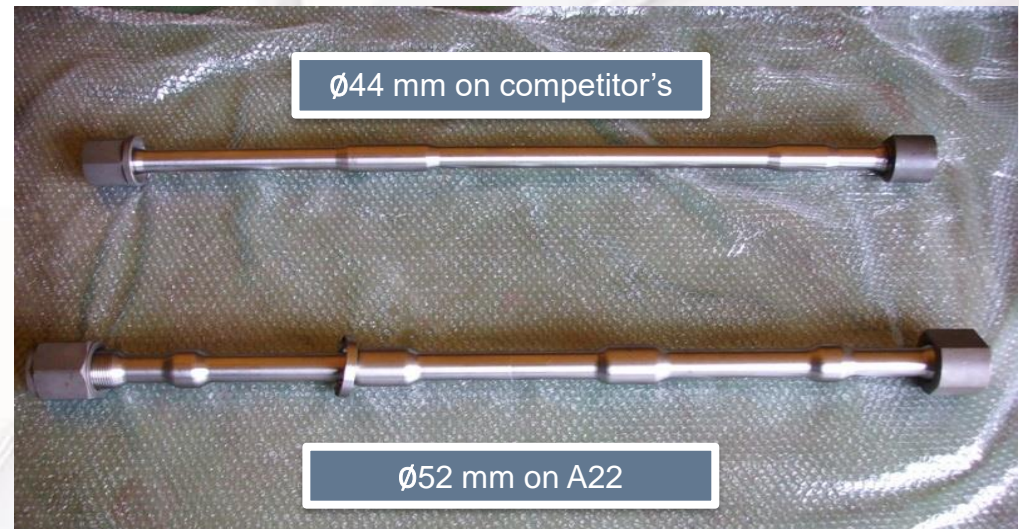
→ **Much longer lifetime**

- Endure much high torque and stress during assembling .

→ **less service
& maintenance cost**

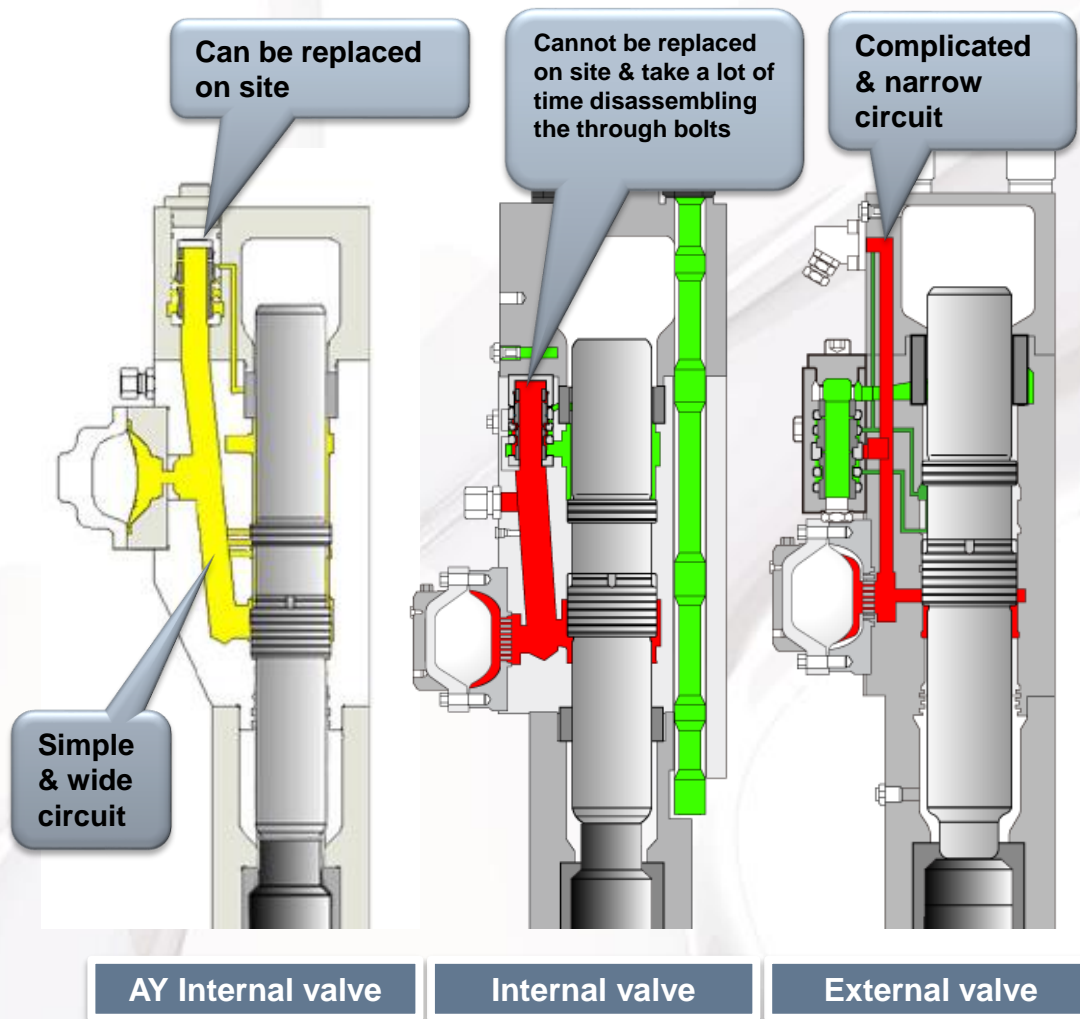
- Protects piston, cylinder and seals from damage by loosening

→ **long durability and less
maintenance cost**



AY Breaker Advantage-5 : Internally installed Control Valve

- Control valve is integrated into breaker head cap.
- Increases efficiency by 5~10% than external valve system
→ **more efficient and economic use of breaker power**
- Lower oil temperature which prevents damage on the seals
→ **lower maintenance costs**
- Simple and wide hydraulic oil path with fewer parts and components
→ **lower repair & maintenance costs**
- Control Valve can be replaced on site without loss of oil
→ **lower repair & maintenance costs.**
→ **Doesn't have to disassemble the whole parts to change the control valve -> lower maintenance cost**





AY Breaker Advantage-6 : Auto-Lube system

- Provides automatic supply of grease throughout the centralized greasing point of the breaker
 - ➔ **lower maintenance costs**
- Self-actuating type, no need of additional pressure pipes
 - ➔ **lower maintenance and repair costs**
- Plug and Play, easy to retro fit
 - ➔ **operator comfort**
- Maximize breaker uptime by ensuring longer lifetime of the tool, pins and bushes
 - ➔ **Increase economic benefit**





AY Breaker Advantage-7 : Large diameter piston bottom

- Durable piston
 - a larger piston diameter spreads the load across a wider surface area reducing the risk of damage.
 - transfer maximum piston power to the tool (higher power & productivity)



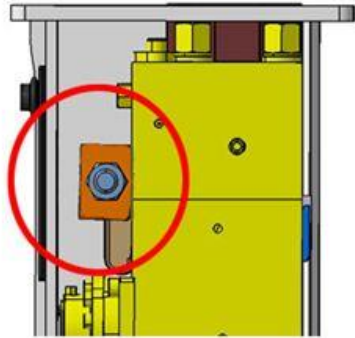
Bottom diameter,
similar to piston
diameter



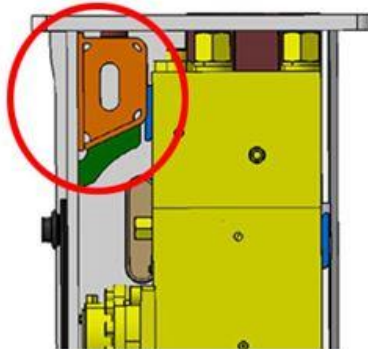
competitor :
The smaller diameter
results in piston
cracking.



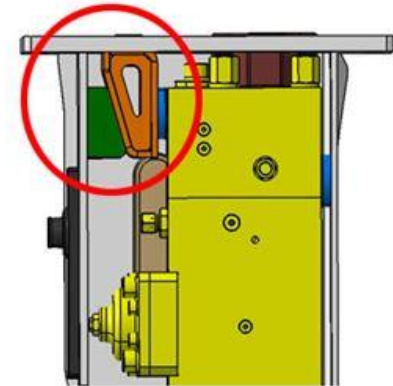
AY Breaker Advantage-8 : Power Cell Holding System (Top Mount Type Only)



Bolt type



Power cell holder –
insertion type stop damper



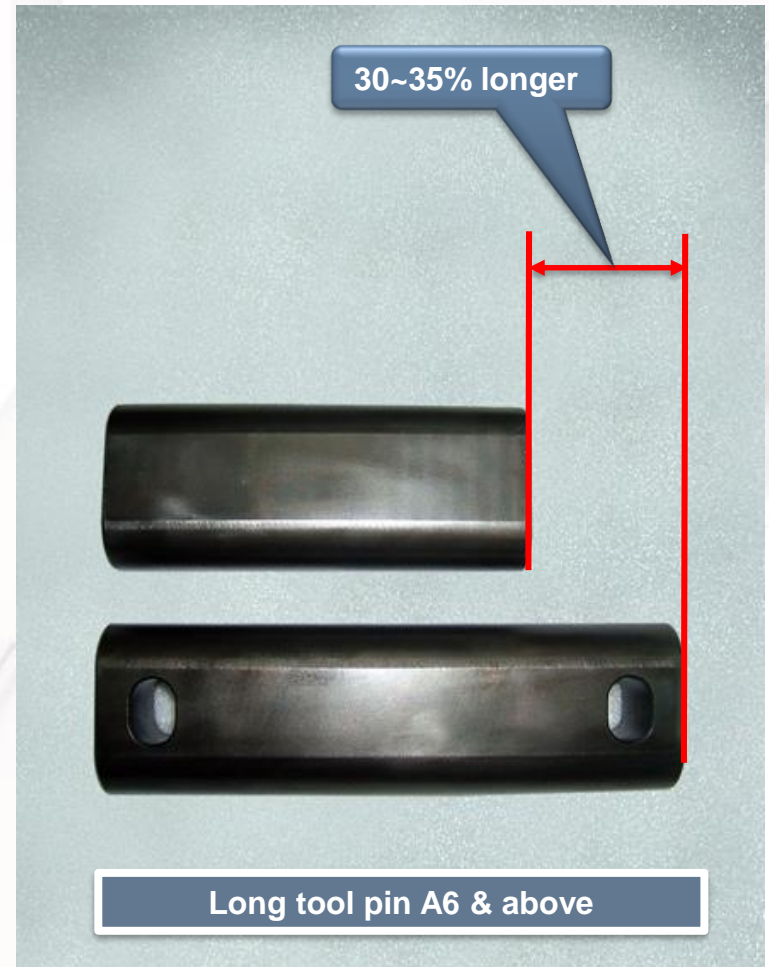
AY Power cell holder –
tapered type stop damper

- Patented power cell holder, tapered stop damper
- no holding bolt
- easy to assemble & disassemble
- lower maintenance and repair costs
- lower cost of production
- less service time
- shorter production period
- no noise when operating
- Stable operation
- Competitors: frequent failures of holding bolts(bolt looseness) lead high maintenance cost .



AY Breaker Advantage-9 : Longer Tool Pin

- More effectively absorbs shock on tool pin
 - longer front head lifetime
 - longer breaker uptime
 - less maintenance & repair costs





THANK YOU

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