

Hydraulic Breakers

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Hydraulic breakers from 90-4,550kg
a range of 14 breakers

*One Blow, its shattered! Proven track record,
KOMATSU offers guarantee for JTHB Breakers.*



Walk-Around

Komatsu’s JTHB breakers deliver exceptional impact energy, long life with low operating costs. What’s more, they minimize operator fatigue and environmental impact. These unique benefits are all due to an innovative blend of a simple yet efficient design and advanced ‘accumulator-free’ technology. With a complete range of 14 breakers all based on the same design philosophy, JTHB breakers are ideal for applications from construction and demolition to recycling, mining and quarrying.

Innovative features, real benefits

FEATURES

- Dual power source combines hydraulic and gas energy
- Recoil energy is absorbed and recycled for the next blow
- Up to 30% fewer parts
- More durable components
- No rubber bladder-type accumulator
- Overhaul every 600hrs
- Only 2 moving parts (piston and control valve)
- Built-in dust protection system
- Short side bolt with vibration-reducing vulcanized rubber sleeves
- Protected threads
- Gas cushion absorbs piston recoil to reduce vibration
- Extensive range of breaker chisel
- Kits for special applications
- Noise-reducing breaker brackets
- Fast service and repair through Komatsu’s worldwide network
- Low sensitivity to back pressures
- Komatsu is a stable and reliable partner

BENEFITS

- High impact energy and productivity
- Reduced operating costs and maintenance
- Maximum reliability
- Less vibration and noise
- Less stress on the machine and operator
- Versatility
- Environmentally friendly
- Reduced downtime
- Fits any excavator
- No need accumulator for in-Line (high pressure line)
- Safe investment

Short side bolt with protected threads boost lifetime and reliability



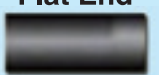
Nitrogen gas cushion absorbs piston recoil and recycles the energy for the next blow

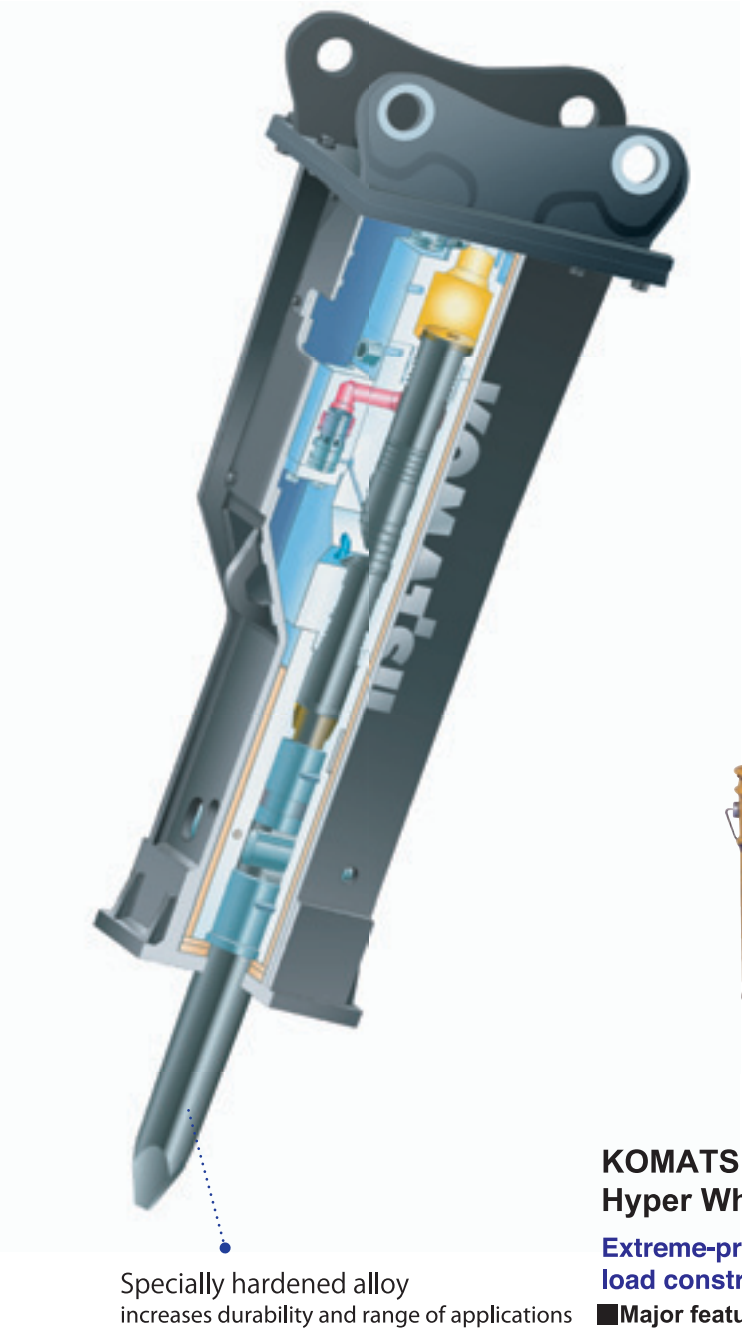
Large piston mass and support area for optimal piston alignment, energy transfer and efficiency

Simple control valve minimize oil flow interruptions and hydraulic pulsations

50/50 piston-chisel weight ratio for greater energy transfer and less recoil

Dual retainer pins ensure correct alignment and easy replacement of tool

Type	Purpose & Application
Flat 	General Demolition through cutting action – Penetration breaking e.g. trenching and slope finishing....
Moil Point 	General Demolition – Penetration Breaking e.g. concrete, rock bed....
Flat End 	Demolition – Impact Breaking e.g. secondary rock breaking, scaling in mines and tunnels, reinforced concrete floors



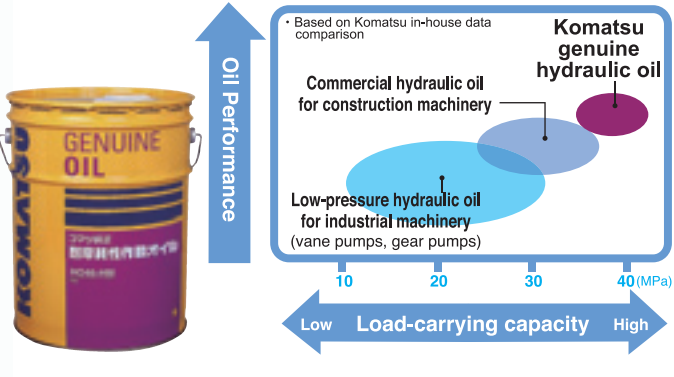
Specially hardened alloy increases durability and range of applications

Komatsu Advantage

Automatic Oil Flow Change
With Komatsu excavator, possible to change hydraulic oil flow for breaker by screen monitor in cabin. It is also possible to switch the hydraulic circuit between Breaker and Attachment mode by that monitor. (after PC200-7 onwards)



KOMATSU Recommended Hydraulic oil
High-performance hydraulic oils that have passed Komatsu’s unique stringent quality requirements



KOMATSU Recommended Hyper White grease

Extreme-pressure grease suited even for high load construction machinery

Major features

Product name	High load-bearing capacity	Antiwear property	Heat resistance	Water resistance	Anticorrosion	Remarks
Hyper white grease	◎	◎	◎	◎	◎	Multipurpose white grease
LithiumnEP grease		○	○	○	○	General grease

Do not use Molybdenum content grease. It will cause the hydraulic components to fail on excavator.

◎Optimum ○Adapted

All 14 Models Line-up



Model Type		JTHB08-3	JTHB10-3	JTHB20-3	JTHB30-3	JTHB40-3	JTHB50-3 / JTHB50-3(BHL)
Working weight							
Side Mount Bracket	kg	—	85	105	175	235	300
Top Mount Box Bracket	kg	85	125	170	250	340	400
Oil flow	ℓ/min	18~25	20~30	20~35	25~45	30~55	35~60
Operating pressure	MPa	6~13	7~14	8~15	10~15	10~16	10~16
Impact rate	bpm	930~1300	700~1200	600~1150	550~1000	580~1060	550~1000
Chisel diameter	mm	φ 40	φ 45	φ 50	φ 58	φ 64	φ 75
Chisel weight	kg	4.0	5.5	7.4	11.9	15.2	23.2
Hose size	inch	3/8	1/2	1/2	1/2	1/2	1/2
Gas pressure	MPa	0.8	0.8	0.8	0.8	0.8	0.8
Base machine	Ton	0.7~1.5	1~2	1.5~2.5	2.4~4	3~4.5	3.8~6
Excavator model		PC10MR	PC18MR	PC20MR	PC30MR/PC35MR	PC45MR	PC55MR/56/WB9X



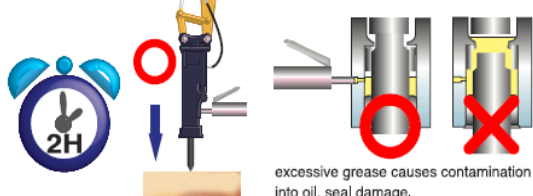
JTHB60-3	JTHB120-3	JTHB160-3 ※ intro. in 2015	JTHB210-3	JTHB350-3	JTHB450-3	JTHB650-3 ※ intro. in 2015
430	820	1010	1710	2530	3100	4550
585	950	1240	1780	2790	3600	4550
45~80	80~120	100~140	160~200	180~230	240~300	280~390
10~16	14~18	12~17	14~18	13~18	14~18	14~18
550~1000	450~720	430~600	450~630	350~450	340~470	370~470
φ 95	φ 105	φ 115	φ 135	φ 146	φ 160	φ 178
42.6	63.5	91.5	133	185	236	
3/4	3/4	3/4	1"	1"	1 1/4"	1 1/4"
1	1.1	0.8	1.1	0.8	0.8	0.8
6~11	8~14	14~20	18~25	27~40	38~50	45~70
PC60/88/78US	PC128US/138US/100/120	PC160/180/PW200	PC200/270	PC300 class	PC400 class	PC600 class

Hydraulic breakers from 90-4,550kg a range of 14 breakers you're guaranteed to find the right breaker for the job.

Precautions for Hydraulic Breaker

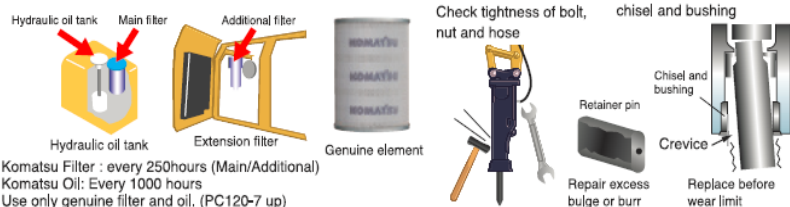
Maintenance

1 Greasing every 2 hours, chisel must be pushed-in position

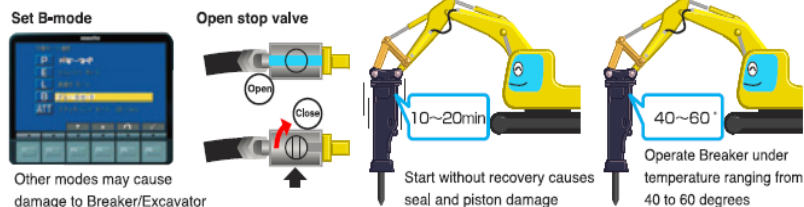


model	Grease pump
JTHB08~20	2~3
JTHB30~40	4~5
JTHB50~60	5~6
JTHB120	6~7
JTHB160~210	7~8
JTHB350	8~9
JTHB450	9~10
JTHB650	10~11

2 Filter Elements, Hydraulic Oil, Consumable Parts.



3 Before Operation



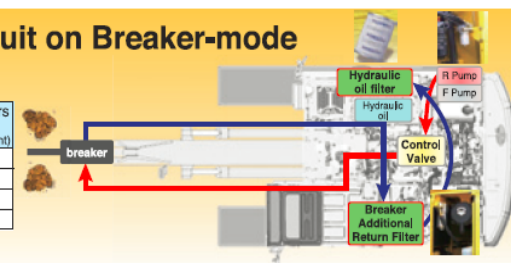
4 Storage



Main hydraulic circuit on Breaker-mode

Oil & Filter Replacement Cycle
(in case of 100% breaker use)

Item	Replace Hours (PC200-8 with Eco While Element)
Hydraulic Oil	1000
Hydraulic Oil Filter Element	250
Pilot Filter Element	250
Additional Filter for Breaker	250



Operation

