

Hydraulic breakers

B, H and V Series



*Equipment photos are only referencial.

B Series

Carrier equipment: 1.5 - 70 t.
Nitrogen-type.
Superior impact energy.
Optional automatic lubrication.

H Series

Carrier equipment: 0.7 - 80 t.
Accumulator-type technology.
Compact range:
-Light, simple and built for reliability.
From 8 t.:
-Powerfull.
-Two speeds.
-Automatic greasing system included in larger models.

V Series

Carrier equipment: 18 - 120 t.
Accumulator-type technology.
Fully automatic variable speed (15 speeds).
JMHB 230V-1 to JMHB 470V-1 with automatic greasing system.
Maximun productivity.

Walk-around

Komatsu hydraulic breakers have been designed to work with precision and quality in every Series. They provide superior impact energy in a wide variety of applications, and high adaptability according to the working conditions. Regardless of the context, their performance is outstanding in all kind of tasks.

B Series

- Carrier equipment: 1.5 - 70 t.
- Nitrogen-type.
- Superior impact energy.
- Optional automatic lubrication.



H Series

- Carrier equipment: 0.7 - 80 t.
- Membrane accumulator.
- Compact version:
 - Lightweight and user-friendly.
- Greater size: (from 8 t.):
 - More power.
 - Two speeds.
 - Automatic greasing system included in larger models.



V Series

- Carrier equipment: 18 - 120 t.
- Membrane accumulator.
- Automatic impact speed selection (15 speeds).
- JMHB 230V-1 to JMHB 470V-1 with automatic greasing system.
- Maximum productivity.



Select the right tool for the job

Use the correct tool is the first step to obtain maximum life and performance from the breaker. It will also decrease overall running costs and increase productivity.

Pyramid

- Application: secondary breaking, demolition, mass excavation.
- Material: low and medium hardness, homogeneous structure.



Chisel

- Application: trenching, mass excavation.
- Material: low and medium hardness, non-homogeneous structure, abrasive.



Blunt

- Application: secondary breaking.
- Material: high hardness, abrasive.



Moil point

- Application: secondary breaking, demolition, mass excavation.
- Material: low and medium hardness, non-homogeneous structure.



Specials

- Uniquely designed tools are available for special applications, such as extremely abrasive material, soft material or tunneling.

B Series hydraulic breakers



Simple, powerful, reliable

- Komatsu B Series hydraulic breakers provide superior impact energy and breaking force in any application. The simplicity of their design combined with high quality components give you breakers that can fit on any machine, and work under any condition, for many years. With up to 30% less components, these breakers require little maintenance, are easy to service and propose market-leading reliability.
- The optional automatic lubrication can extend their lifetime even further.



JTHB60-3

- Specifically designed for WB93/97.



Heavy-duty housing

- Extremely tough and wear-resistant housing on every single model!



Fully suspended, silent

- The fully suspended power cell dampens shockwave transmission, increasing operator comfort, reducing noise and protecting the carrier.

Accumulator-free technology

- The integrated nitrogen gas cushion absorbs the piston recoil energy and recycles it for the next blow. High quality seals prevent ill-timed and frequent refills!

Two moving components

- To keep operating and maintenance cost down, these breakers feature 30% fewer parts than their competitors - and every single one of those parts is designed to Komatsu's strict engineering and quality standards. This means fewer parts need to be replaced, repairs are straightforward, reliability is unbeatable.



Optional automatic lubrication

- Protege su inversión al ofrecer un engrase continuo, lo que extiende la vida útil de los bujes y del martillo.

High quality tools

- Komatsu Genuine tools are much more than just machined pieces of steel. The best alloys guarantee a long wear life. Delicate heat treatment result in a faultless and tough product. Careful and precise heat treatment ensure the piston impacts the tool at the right moment for maximum energy transfer.



B Series

Carrier equipment: 1.5 - 70 t.
Nitrogen-type.
Superior impact energy.
Optional automatic lubrication.

H Series hydraulic breakers

An ace up their sleeve

- 15 new models join the Komatsu hydraulic breaker range. Based on accumulator-type technology, these breakers deliver consistent impact power in any environment, on any machine. Innovative features and clever design improve production while lowering the total cost of ownership significantly.

Compact range

- 8 breakers, from 0.7 to 12.0 t, cover the utility and midi excavator segment. These breakers are designed with a compact and light body, improving machine stability, operator visibility and comfort. The inside is simple and reliable: no tie rods, but with high quality components, automatic pressure regulation, high back pressure tolerance and blank firing protection.



Large range

- 4 heavy-duty breakers designed to obliterate any material in their path. Suitable for carriers between 20 and 80 t, these breakers will automatically adjust their working frequency depending on the hardness of the material. Other features? Heavy-duty housing and build, automatic greasing, blank firing protection, swivel hose couplings, field-replaceable bushings, overflow protection, adjustable pressure regulation, and more.



Automatic greasing system

- Breakers from JMHB130H-1 to larger models include automatic greasing system.



Swivel hose coupling

- Extends hose lifetime.



Nitrogen accumulator

- Constant power over time.
- No need of nitrogen refill.

Large diaphragm accumulator

- Full power, day after day, with no need to refill nitrogen. Smoothens pressure spikes, protecting the carrier.

Advanced blank firing protection as standard

- Protect your investment! Piston movement is not interrupted, but impact is prevented by a hydraulic brake. Saves time and money.

High back pressure tolerance

- The H Series utility breakers can work on any machine, thanks to their high tolerance for back pressure.

Pressure regulator valve

- Maintains a constant operating pressure, providing powerful impact strokes, whatever the conditions. On some models, the valve can also divert up to 15% of excessive flow, protecting the breaker from damage.

Compact and light housing

- The H Series utility breakers are incredibly compact, enabling better operator visibility and greater stability and comfort.

Fully suspended, silent

- The fully suspended powercell reduces shock wave transmission, resulting in higher operator comfort and less noise.

Automatic greasing system

- From JMHB130H-1 to larger models, automatic greasing system is included, which continuously provides the optimal amount of grease to the breaker.

Automatic 2-speed selection

- From model JMHB220H-1 to JMHB660H-1, the breakers have two different impact rates, which are automatically set depending on the rock condition, increasing productivity.

Swivel hose couplings

- The hoses are connected on articulated couplings, allowing them to move freely, for less breakage risk and a longer lifetime.

Right tool for each job

- Standard: moil point, pyramid, chisel or blunt tool.
- Specials: special tools are available for dust extraction, super abrasive applications or work in soft ground.



H Series

Carrier equipment: 0.7 - 80 t.

Accumulator-type technology.

Compact range:

-Light, simple and built for reliability.

From 8 t.:

-Powerfull.

-Two speeds.

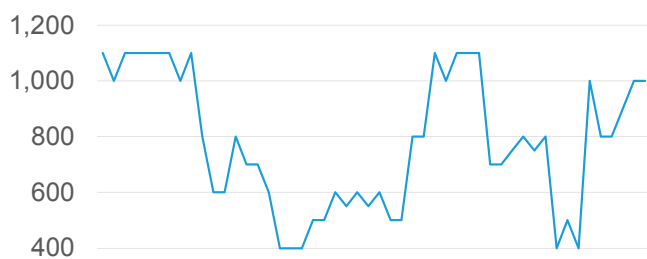
-Automatic greasing system included in larger models.

V Series hydraulic breakers



Unrivalled productivity and lowest cost per ton

- Komatsu V Series breakers are designed for maximum productivity in any application, whilst lowering cost per ton. Works well with all types of applications, for demolition, mass excavation or secondary breaking.
- They fully modulate their impact force and frequency to match the application's requirements, with no wasted energy and, therefore, with a much higher operating efficiency. A patented valve recuperates energy and further improves this efficiency.
- As with the H Series, many features such as the automatic greasing, advanced blank firing protection, swivel hose couplings and heavy-duty housing are standard. In addition, patented bushing protects the tool and retaining pins by absorbing any torque on the tool.



300% energy variation in 1s.

Fully variable technology

- Depending on the application's hardness, V Series breakers automatically select the optimal piston stroke length and speed. By adjusting to either hard material, with long and powerful strokes, or to softer material, with shorter, faster strokes, the highest production output is consistently achieved, with no waste of impact energy.

Integrated automatic lubrication as standard

- Provides continuous greasing, extending the lifetime of the bushings and tool, protecting your investment.

Pressure regulator valve

- Maintains a constant operating pressure, providing powerful impact strokes, whatever the conditions.

Fully suspended, silent

- The fully suspended powercell reduces shock wave transmission, resulting in higher operator comfort and less noise.

Large diaphragm accumulator

- Full power, day after day. Smoothens pressure spikes, protecting the carrier.

Swivel hose couplings

- The hoses are connected on articulated couplings, allowing them to move freely, for less breakage risk and a longer lifetime.

Patented overflow protection

- These breakers are protected from accidental flow adjustments thanks to a patented overflow protection system.

Energy recovery valve

- More than 90% energy recovery, making them the most efficient breakers in their class.

Advanced blank firing protection as standard

- Protect your investment. Piston movement is not interrupted, but impact is prevented by a hydraulic brake. Saves time and money.

Tool protection system

- Torque on the tool is absorbed by the bushing, instead of the retaining pins. In combination with bronze bushing, this dramatically extends the tool's lifetime.

The right tool for the job

- Choice of various tools for each type of application:
 - Standard:moil point, pyramid, chisel or blunt tool.
 - Specials: special tools are available for dust extraction, super abrasive applications or work in soft ground.

Fully variable automatic speed selection

- Enabling the highest production in any application, these breakers can select exactly the right amount of power to break through the material.



V Series

Carrier equipment: 18 - 120 t.

Accumulator-type technology.

Fully automatic variable speed (15 speeds).

JMHB 230V-1 to JMHB 470V-1 with automatic greasing system.

Maximum productivity.

Models

B Series hydraulic breakers

Model	Unit	JTHB08-3	JTHB10-3	JTHB20-3	JTHB30-3	JTHB40-3	JTHB50-3	JTHB60-3	JTHB70-3	JTHB120-3	JTHB160-1
Operating weight	kg	90	120	145	210	255	385	365	570	950	1,240
Oil flow (min-max)	L/min	18 ~ 25	20 ~ 30	20 ~ 35	25 ~ 45	30 ~ 55	35 ~ 60	40 ~ 70	45 ~ 80	80 ~ 120	100 ~ 140
Operating pressure	MPa	6 ~ 13	7 ~ 14	45/53	10 ~ 15	10 ~ 16	45/215	10 ~ 16	10 ~ 16	14 ~ 18	12 ~ 17
Impact rate	bpm	930 ~ 1,300	700 ~ 1,200	600 ~ 1,150	550 ~ 1,000	560 ~ 1,060	550 ~ 1,000	600 ~ 1,050	550 ~ 1,000	450 ~ 720	430 ~ 600
Tool diameter	mm	40	45	50	58	64	75	75	95	105	115
Max. back pressure	MPa	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	0.8
Carrier size	t	7.0 ~ 1.5	1.0 ~ 2.0	1.5 ~ 2.5	2.4 ~ 4.0	3.0 ~ 4.5	3.8 ~ 6.0	5.5 ~ 8.0	6.0 ~ 11.0	8.0 ~ 14.0	14.0 ~ 20.0
Komatsu carriers		•PC09 •PC14R •PC16R	•PC18MR	•PC22MR •PC26MR •SK714 •SK815/820	•PC26MR-3 •PC35MR-5 •SK820-5E0	•PC35MR-5 •SK820-5E0	•PC45MR-5M0 •WB93R-5E0 •WB97R-5E0	•WB93R-5E0 •WB97R-5E0	•PC88MR-8 •WB93R-5E0 •WB97R-5E0	•PC88MR-8 •PC130-8	•PC160LC-8 •PC200-10M0CE

Model	Unit	JTHB210-3	JTHB290-1	JTHB355-5	JTHB455-G	JTHB650-3
Operating weight	kg	1,830	2,250	2,880	3,850	4,550
Oil flow (min-max)	L/min	160 ~ 200	160 ~ 200	180 ~ 230	240 ~ 300	280 ~ 390
Operating pressure	MPa	14 ~ 18	14 ~ 18	13 ~ 18	14 ~ 18	14 ~ 18
Impact rate	bpm	450 ~ 630	370 ~ 490	350 ~ 450	290 ~ 440	370 ~ 470
Tool diameter	mm	135	140	155	170	178
Max. back pressure	MPa	1.1	0.8	0.95	1.0	0.8
Carrier size	t	18.0 ~ 25.0	20.0 ~ 30.0	27.0 ~ 40.0	38.0 ~ 53.0	45.0 ~ 70.0
Komatsu carriers		•PC210LC-10M0 •PC220LC-8M0	•PC290LC	•PC300 •PC360LC •PC390LC	•PC490LC •PC500LC	•PC500LC-10M0 •PC600LC-8E0

All B Series breakers include a tool, toolbox, hose kit, coupling plate, gas refill kit and one year warranty.
Optional: lubrication system.



H Series hydraulic breakers

Model	Unit	JMHB09H-2*	JMHB15H-2*	JMHB21H-2*	JMHB35H-2*	JMHB45H-2*
Operating weight	kg	55	71	91	121	184
Oil flow (min-max)	L/min	12 ~ 23	15 ~ 30	17 ~ 35	25 ~ 50	30 ~ 65
Operating pressure	(max., bar/psi)	110/1,600	120/1,740	120/1,740	120/1,740	120/1,740
Impact rate	bpm	725 - 1,460	800 - 1,600	825 - 1,700	770 - 1,500	600 - 1,360
Tool diameter	mm	37	45	47	55	65
Rate variety		1	1	1	1	1
Greasing system		Manual	Manual	Manual	Manual	Manual
Carrier size	t	0.7 ~ 1.2	1.0 ~ 1.7	1.2 ~ 2.2	1.5 ~ 3.7	2.5 ~ 5.3
Komatsu carriers		•PC09-1	•PC14R-2 •PC14R-3 •PC16R-2 •PC16R-3	•PC14R-2 •PC14R-3 •PC16R-2 •PC16R-3 •PC18MR-3 •PC18MR-5 •SK05J-2	•PC18MR-5 •SK510-5 •PC22MR-3 •PC24MR-5 •PC26MR-3 •PC26MR-5 •PC30MR-3 •PC30MR-5 •PC35MR-3 •PC35MR-5	•SK510-5 •PC24MR-5 •SK714-5 •SK815-5 •SK815-5 - Turbo •SK818-5 •SK820-5 - Turbo •CK20-1 •PC26MR-3 •PC26MR-5 •PC30MR-3 •PC30MR-5 •PC35MR-3 •PC35MR-5 •PC45MR-3 •PC45MR-5 •PC55MR-3 •PC55MR-5 •PC58UU-3

*Includes a tool, tools, and one year warranty.



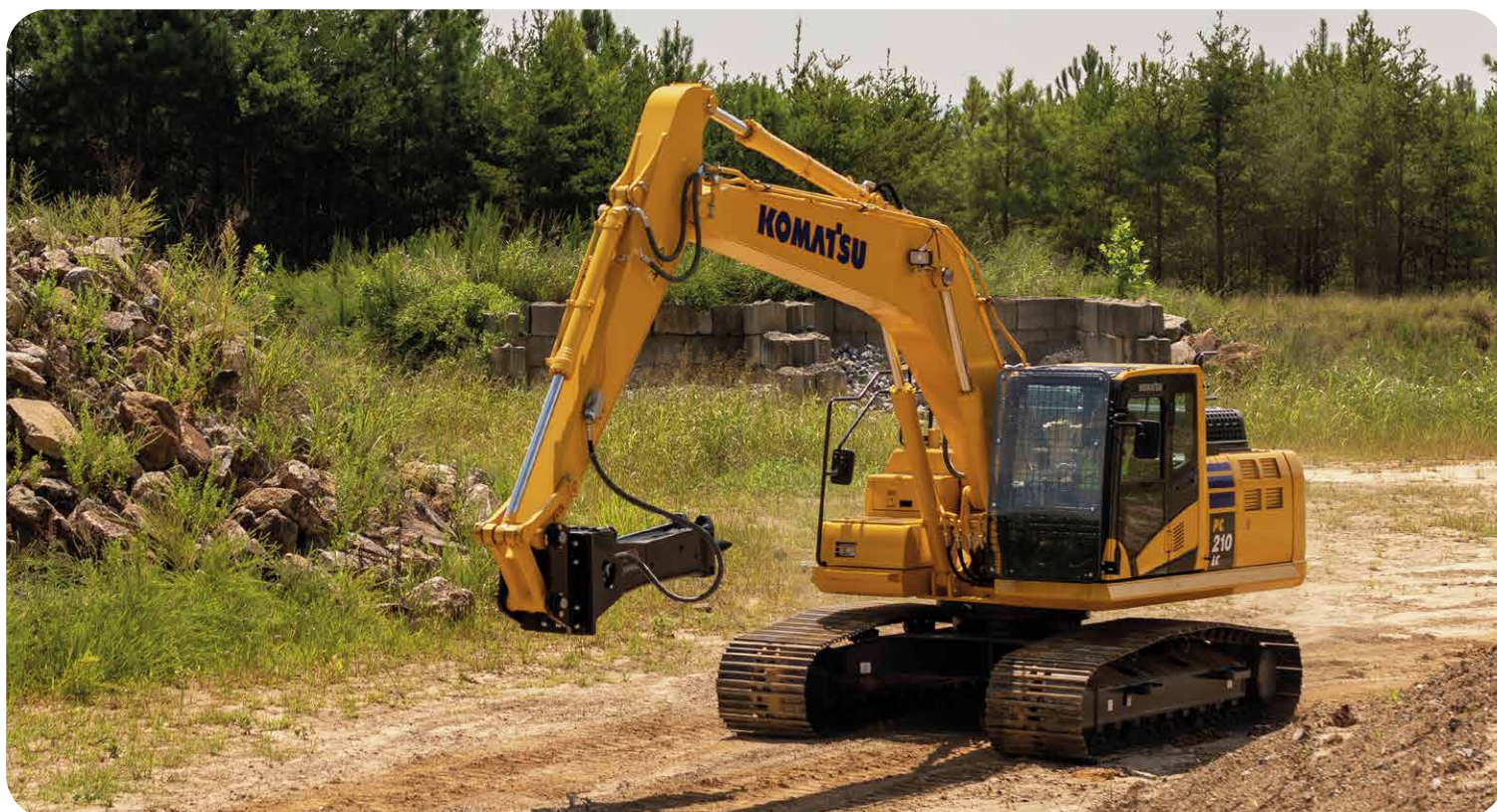
H Series hydraulic breakers

Model	Unit	JMHB55H-2*	JMHB70H-2*	JMHB80H-1*	JMHB100H-1	JMHB130H-1
Operating weight	kg	204	279	331	385	600
Oil flow (min-max)	L/min	40 ~ 75	55 ~ 100	70 ~ 120	75 ~ 125	80 ~ 140
Operating pressure	(max., bar/psi)	120/1,740	125/1,815	125/1,815	130/1,885	140/2,031
Impact rate	bpm	630 - 1,420	700 - 1,550	700 - 1,440	600 - 1,137	420 - 870
Tool diameter	mm	72	76	84	94	106
Rate variety		1	1	1	1	1
Greasing system		Manual	Manual	Manual	Manual	Automatic
Carrier size	t	3.0 ~ 7.5	4.0 ~ 10.0	5.0 ~ 12.0	7.0 ~ 14.0	9.0 ~ 16.0
Komatsu carriers		•SK714-5 •SK815-5 •SK815-5 Turbo •SK818-5 •SK820-5 Turbo •PC30MR-5 •SK1020-5 Turbo •PC35MR-3 •PC35MR-5 •CK20-1 •CK25-1 •PC45MR-3 •PC45MR-5 •PC55MR-3 •PC55MR-5 •PC58UU-3 •PC58MR-5EO •PC58MR-5EO Power •PC70-8USA •PC78US-8	•SK714-5 •SK815-5 •SK815-5 Turbo •SK818-5 •SK820-5 Turbo •SK1020-5 Turbo •SK1026-5 Turbo •CK20-1 •CK25-1 •CK30-1 •CK35-1 •PC45MR-3 •PC45MR-5 •PC55MR-3 •PC55MR-5 •PC58UU-3 •PC58MR-5EO •PC70-8 USA •PC78US-8 •PC78UU-6 •WB93S-5 •WB97S-5 •WB146-5 •PC80MR-3 •PC80MR-5 •WB93R-5 •WB93R-8 •WB97R-5 •WB78MR-6 •PC88MR-6 •PC88MR-8 •PC88MR-10 •PC88MR-11 •PC95R-2 •PW95R-2 •PW98MR-6 •PW98MR-8 •PW98MR-10	•SK815-5 •SK815-5 Turbo •SK1020-5 Turbo •SK1026-5 Turbo •SK20-1 •SK25-1 •SK30-1 •SK35-1 •PC70-8 USA •PC78US-8 •PC78UU-6 •WB93R-5 •WB93R-8 •WB97R-5 •WB146-5 •PC80MR-3 •PC80MR-5 •PC78MR-6 •PC88MR-6 •PC78MR-8 •PC88MR-6 •PC88MR-8 •PC88MR-10 •PC88MR-11 •WB93S-5 •WB97S-5 •PW98MR-6 •PW98MR-8 •PW98MR-10 •PC95R-2 •PW95R-2 •PC110R-1 •PW110R-1 •PC118MR-8 •PW118MR-8	•SK818-5 •SK820-5 Turbo •SK1020-5 Turbo •SK1026-5 Turbo •CK30-1 •CK35-1 •PC78US-8 •PC78UU-6 •WB93S-5 •WB97S-5 •WB146-5 •PC80MR-3 •PC80MR-5 •WB93R-5 •WB93R-8 •WB97R-5 •PC78MR-6 •PC88MR-6 •PC88MR-8 •PC88MR-10 •PC88MR-11 •PW98MR-6 •PW98MR-8 •PW98MR-10 •PC95R-2 •PW95R-2 •PC110R-1 •PC118MR-8 •PW110R-1 •PC118MR-8 •PC130-7 •PC130-8 •PW118MR-11 •PW130-7 •PW140-7 •PW138MR-11 •PC138US-2 •PC138US-8 •PC138US-10 •PC138US-11 •PW148-8	•PW98MR-6 •PC95R-2 •PW95R-2 •PW98MR-8 •PW98MR-10 •PC110R-1 •PW110R-1 •PC118MR-8 •PW118MR-8 •PC128US-2 •PC130-7 •PW130-7 •PC130-8 •PW118MR-11 •PW138MR-11 •PW140-7 •PC138US-2 •PC138US-8 •PC138US-10 •PC138US-11 •PW148-8 •PW148-10 •PW148-11 •PC150LC-6 •PW150 ES-6 •PW160-7 •PW168-11 •PW158-11

*Includes a tool, tools, and one year warranty.

JMHB100H-1: Includes a tool, and one year warranty. Does not include tools or toolbox.

JMHB130H-1: Includes a tool and one year warranty. Does not include tools or toolbox.





H Series hydraulic breakers

Model	Unit	JMHB170H-1	JMHB220H-1**	JMHB360H-1**	JMHB460H-1**	JMHB660H-1**
Operating weight	kg	853	1,612	2,185	3,055	3,711
Oil flow (min-max)	L/min	100 ~ 150	140 ~ 220	185 ~ 250	250 ~ 320	280 ~ 380
Operating pressure	MPa	125/1,813	165/2,393	155/2,248	185/2,683	185/2,683
Impact rate	bpm	400 - 800	320 - 720	320 / 560	350 / 700	300 / 610
Tool diameter	mm	118	140	160	174	190
Rate variety		1	2	2	2	2
Greasing system		Automatic	Automatic	Automatic	Automatic	Automatic
Carrier size	t	15.0 ~ 25.0	20.0 ~ 35.0	27.0 ~ 40.0	35.0 ~ 60.0	45.0 ~ 80.0
Komatsu carriers		•PW148-8 •PW148-10 •PW148-11 •PC150LC-6 •PC158USLC-2 •PW150ES-6 •PW158-11 •PW160-7 •PW160-8 •PC160LC-7 •PC160LC-8 •PW168-11 •PW160-10 •PW160-11 •PW180-10 •PW180-11 •PC180LC-7 •PW180-7 •PC170LC-10 •PC170LC-11 •PC190LC-8 •PC200LC-7 •PW200-7 •PW220-7 •PC200LC-8 •PC200LC-10M0 •HB215LC-1 (Hybrid) •HB215LC-2 (Hybrid) •HB215LC-3 (Hybrid) •PC210LC-7 •PC210LC-8 •PC210LC-10 •PC210LC-11 •PC230NHD-8 •PC220LC-7 •PC220LC-8 •PC228USLC-3 •PC228USLC-8 •PC228USLC-10 •PC228USLC 11 •PC230NHD-11 •PC238USLC-11 •PC240LC-7 •PC240LC-8	•PC200LC-10M0 •PC200LC-7 •PC200LC-8 •HB215LC-1 (Hybrid) •HB215LC-2 (Hybrid) •PC210LC-7 •PC210LC-8 •PC210LC-11 •PW220-7 •PC210LC-10 •PC230NHD-8 •HB215LC-3 (Hybrid) •PC220LC-7 •PC220LC-8 •PC228USLC-8 •PC230NHD-11 •PC228USLC-3 •PC228USLC-10 •PC228USLC 11 •PC238USLC-11 •PC240LC-7 •PC240LC-8 •PC240LC-10 •PC240LC-11 •PC270-8 •PC270LC-6 •PC270LC-7 •PC290LC-7 •PC290LC-8 •PC290LC-10 •PC290LC-11 •PC300LC-7 •PC300LC-8 •PC308USLC-3 •PC340LC-7 •PC350LC-7 •PC350LC-8	•PC270LC-6 •PC270LC-7 •PC290LC-7 •PC290LC-8 •PC290LC-10 •PC290LC-11 •PC300LC-7 •PC300LC-8 •PC308USLC-3 •PC340LC-7 •PC350LC-7 •PC350LC-8 •PC360LC-10 •PC360LC-11 •PC390LC-11 •HB365LC-3 (Hybrid) •PC380LC-7	•PC380LC-7 •PC390LC-11 •PC400LC-8R •PC400LC-7 •PC450LC-7 •PC450LC-8 •PC490LC-10 •PC490LC-11 •PC500LC-8R •PC500LC-8M0 •PC500LC-10R •PC550LC-8	•PC450LC-7 •PC450LC-8 •PC490LC-10 •PC490LC-11 •PC500LC-8R •PC500LC-8M0 •PC500LC-10R •PC550LC-8 •PC550LC-8 •PC600LC-6 •PC600LC-7 •PC600LC-8 •PC650LC-11 •PC700LC-8 •PC700LC-11 •C750LC-7 •PC850-8R

** Includes a tool, tools and a one-year warranty. When serviced at an Authorized Dealer, an additional year of warranty is added.
JMHB170H-1: Includes a tool and one year warranty. Does not include tools or toolbox.





V Series hydraulic breakers

Model	Unit	JMHB230V-1	JMHB370V-1*	JMHB470V-1*	JMHB670V-1*	JMHB870V-1*	JMHB1270V-1*
Operating weight	kg	1,217	2,065	2,765	4,508	5,208	5,927
Oil flow (min-max)	L/min	120 ~ 170	180 ~ 265	240 ~ 320	380 ~ 420	400 ~ 500	400 ~ 550
Operating pressure	(max., bar/psi)	135/1,958	165/2,393	165/2,393	165/2,393	180/2,611	180/2,611
Impact rate	bpm	285 ~ 1,050	345 ~ 1,160	330 ~ 1,045	380 ~ 950	290 ~ 550	290 ~ 590
Tool diameter	mm	122	150	170	202	214	214
Rate variety		15	15	15	15	15	15
Greasing system		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Carrier size	t	18.0 ~ 30.0	27.0 ~ 40.0	35 ~ 60	45.0 ~ 80.0	60.0 ~ 95.0	70.0 ~ 120.0
Komatsu carriers		•PW160-10 •PW160-11 •PW180-10 •PC180LC-7 •PC190LC-8 •PC180-11 •PC200LC-10M0 •PW200-7 •PC200LC-7 •PC200LC-8 •PC210LC-7 •PC210LC-8 •PC210LC-11 •HB215LC-1 (Hybrid) •HB215 LC-2 (Hybrid) •HB215LC-3 (Hybrid) •PW220-7 •PC210LC-10 •PC230NHD-8 •PC220 LC-7 •PC220LC-8 •PC228USLC-8 •PC230NHD-11 •PC228USLC-3 •PC240LC-7 •PC228USLC-11 •PC228USLC-10 •PC238USLC-11 •PC240LC-10 •PC240LC-11 •PC240LC-8 •PC270-8 •PC270LC-6 •PC270LC-7 •PC290LC-7 •PC290LC-8	•PC270LC-6 •PC270LC-7 •PC290LC-7 •PC290LC-8 •PC290LC-10 •PC290LC-11 •PC300LC-8 •PC308USLC-3 •PC300LC-7 •PC340LC-7 •PC350LC-7 •PC350LC-8 •PC360LC-10 •PC360LC-11 •PC390LC-11 •HB365LC-3 (Hybrid) •PC380LC-7	•PC380LC-7 •PC390LC-11 •PC400LC-8R •PC400LC-7 •PC450LC-7 •PC450LC-8 •PC490LC-10 •PC490LC-11 •PC500LC-8R •PC500LC-8M0 •PC500LC-10R •PC550LC-8	•PC550LC-8 •PC600LC-6 •PC600LC-7 •PC600LC-8 •PC650LC-11 •PC700LC-8 •PC700LC-11 •PC750LC-7 •PC700LC-11 •PC750LC-7 •PC800LC-8 •PC850-8R	•PC650LC-11 •PC700LC-8 •PC700LC-11 •PC750LC-7 •PC850-8R •PC800LC-8 •PC950LC-11	•PC750LC-7 •PC850-8R •PC800LC-8 •PC950LC-11

All V Series breakers include a tool, a toolbox and a one-year warranty. Performing maintenance at an Authorized Dealer adds an additional year of warranty.

JMHB230V-1: Includes a tool and one year warranty when maintenance is performed at an Authorized Dealer, an additional year warranty is added. Does not include tools or toolbox.

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