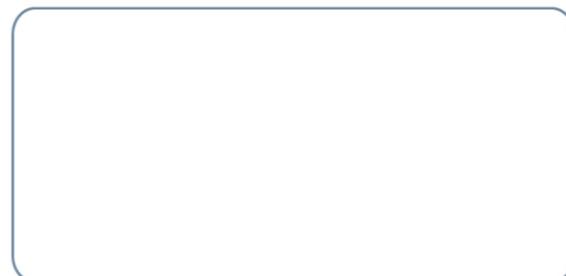


· Committed To Quality
· Committed To You



Local Dealer



ADD. No.28,Zhenxing Road,Xinbei District,Changzhou,
JiangSu,China
TEL. +8613601643237
URL. www.mhabreaker.com
E-mail. smartisanbreaker@outlook.com

MHA Hydraulic Breaker

MHA Breaker is designed for mainly focusing on breaking job. Our focus is to optimize impact power, enhance durability, satisfy customer convenience and maintain easily in order to be faithful to the original function of hydraulic breaker.

- Committed To Quality
- Committed To You



About

MHA, as a leading company in China, we are offering high quality hydraulic breaker(hammer) for our customers. Building customer satisfaction in the course of our management system is fundamental to our company.

We specialize in manufacturing Hydraulic breaker (hammer) & attachments in which we are in constant pursuit for supreme quality.

"Everyone works together to create good quality." With this approach, we embrace a positive determination with the objective to increase competitiveness in the 21st century through research, development and continuous investments.

Along with our development training process for qualifying manpower and technical know-how of our expertise, concentrating on advanced technology development

Our vision

We are more than a maker of products.

Since 1999, we've had the foresight to find new ways to make lives better. From creating new categories to starting new conversations, we are constantly innovating our products and our practices to serve and care for the ever-changing needs of the people we touch at all stages.

Each day, around the globe, we're dedicated to inspiring each other and helping individuals experience more of what's important to them.

It's why we bring together people who think differently to lead the world in the essentials for a better life.



PRODUCTION EQUIPMENT

with Technology, Quality-competitiveness, Productivity, Mobility & Competitive price through continuous facility investment & training its human resources



PUMA700L CNC



HM6500 MCT



HM8000 MCT



BARREL FINISHING



GRAINING MACHINE



CNC GRAINING MACHINE



SUPER FINISHING



CLEAN MACHINE

PRODUCTION PROCESS

From raw material control to Complete products!



Material cutting Entered



Facing



CNC Processing



MCT Processing



Heat Treatment



Grinding



Assembly



packaging, shipping

MHA SIDE TYPE

- Easy maintenance!
- Enhanced durability!
- Convenience to carry on with Excavator



• Standard Specification

Description / Model	UNIT	MHA 40	MHA 45	MHA 53	MHA 58	MHA 68	MHA 75	MHA 85	MHA 100	MHA 125	MHA 135	MHA 140	MHA 150	MHA 155	MHA 165	MHA 175
Operating Weight	Kg	100	120	216	226	320	445	600	928	1,460	1,705	1,948	2,290	2,890	2,950	4,075
	lbs	220	264	475	497	704	979	1,320	2,042	3,212	3,751	4,286	5,038	6,358	6,490	8,965
Setting Pressure	bar	140	140	150	150	160	180	180	190	210	210	210	230	230	250	250
	psi	2,030	2,030	2,175	2,175	2,320	2,611	2,611	2,756	3,046	3,046	3,046	3,336	3,336	3,626	3,626
Operating Pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140	120 ~ 150	130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
	psi	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,565 ~ 1,991	1,707 ~ 2,134	1,849 ~ 2,276	2,134 ~ 2,418	2,176 ~ 2,466	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560
Oil Flow Range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70	50 ~ 90	60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
	gal/min	4 ~ 7	5 ~ 8	7 ~ 11	6.5 ~ 13	10.5 ~ 18.5	13 ~ 24	16 ~ 26.5	21 ~ 29	24 ~ 32	27 ~ 40	32 ~ 48	37 ~ 50	48 ~ 63	51 ~ 69	55 ~ 77
Impact Rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900	400 ~ 800	400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	300 ~ 450	300 ~ 450	250 ~ 400	200 ~ 350
Hose Diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1	1	1-1/4	1-1/4	1-1/4
Tool Shank Diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7	75 / 2.9	85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
Applicable Carrier Weight	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7	6 ~ 9	7 ~ 14	11 ~ 16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
	lbs	1,102 ~ 3,306	2,645 ~ 6,613	5,511 ~ 9,920	5,511 ~ 9,920	8,818 ~ 15,432	13,227 ~ 19,841	15,432 ~ 30,864	24,250 ~ 35,274	35,270 ~ 48,500	39,683 ~ 46,297	39,683 ~ 57,320	50,706 ~ 61,729	61,729 ~ 77,161	66,138 ~ 99,208	88,185 ~ 121,254
Noise Level	L _a (dB)	85	90	89	89	89	88	88	88	88	86	85	87	90	91	92

Light duty range Medium duty range Heavy duty range

※ Above specification can be changed without any prior notice for improvement in quality

Light duty range Medium duty range Heavy duty range

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MHA SILENCED BOX TYPE

- Noise reduction technology!
- Friendly environment!
- High quality & proud of durability!



• Standard Specification

Description / Model	UNIT	MHA 40S	MHA 45 S	MHA 53 S	MHA 58 S	MHA68S	MHA 75S
Operating Weight	Kg	100	120	216	226	320	445
	lbs	220	264	475	497	704	979
Setting Pressure	bar	140	140	150	150	160	180
	psi	2,030	2,030	2,175	2,175	2,320	2,611
Operating Pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140	120 ~ 150
	psi	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,565 ~ 1,991	1,707 ~ 2,134
Oil Flow Range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70	50 ~ 90
	gal/min	4 ~ 7	5 ~ 8	7 ~ 11	6.5 ~ 13	10.5 ~ 18.5	13 ~ 24
Impact Rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900	400 ~ 800
Hose Diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2
Tool Shank Diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7	75 / 2.9
Applicable Carrier Weight	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7	6 ~ 9
	lbs	1,102 ~ 3,306	2,645 ~ 6,613	5,511 ~ 9,920	5,511 ~ 9,920	8,818 ~ 15,432	13,227 ~ 19,841
Noise Level	L _a (dB)	85	90	89	89	89	88

Light duty range Medium duty range Heavy duty range

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MHA 85S	MHA 100S	MHA 125S	MHA 135 S	MHA 140 S	MHA 150 S	MHA 155 S	MHA 165 S	MHA 175S
600	928	1,460	1,705	1,948	2,290	2,890	2,950	4,075
1,320	2,042	3,212	3,751	4,286	5,038	6,358	6,490	8,965
180	190	210	210	210	230	230	250	250
2,611	2,756	3,046	3,046	3,046	3,336	3,336	3,626	3,626
130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
1,849 ~ 2,276	2,134 ~ 2,418	2,176 ~ 2,466	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560
60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
16 ~ 26.5	21 ~ 29	24 ~ 32	27 ~ 40	32 ~ 48	37 ~ 50	48 ~ 63	51 ~ 69	55 ~ 77
400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	300 ~ 450	300 ~ 450	250 ~ 400	200 ~ 350
3/4	3/4	1	1	1	1	1-1/4	1-1/4	1-1/4
85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
7 ~ 14	11 ~ 16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
15,432 ~ 30,864	24,250 ~ 35,274	35,270 ~ 48,500	39,683 ~ 46,297	39,683 ~ 57,320	50,706 ~ 61,729	61,729 ~ 77,161	66,138 ~ 99,208	88,185 ~ 121,254
88	88	88	86	85	87	90	91	92

Light duty range Medium duty range Heavy duty range

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MHA SILENCED BOX TYPE

- Noise reduction technology!
- Friendly environment!
- High quality & proud of durability!



Option Device

Auto lubricant system



- Auto lubricant system
- Auto lubricant system with its grease cartridges guarantee that breaker tool bushes receive the exact grease amount during its operation.
- This makes the demolition impact smoother and extends the bush & tool life.



• Standard Specification

Description / Model	UNIT	HB 20GS	HB 30GS
Operating Weight	Kg	1,816	2,450
	lbs	3,995	5,390
Setting Pressure	bar	210	230
	psi	3,046	3,336
Operating Pressure	bar	160 ~ 180	160 ~ 180
	psi	2,276 ~ 2,560	2,276 ~ 2,560
Oil Flow Range	l/min	100 ~ 150	150 ~ 210
	gal/min	27 ~ 40	40 ~ 56
Impact Rate	bpm	400 ~ 600	300 ~ 450
Hose Diameter	inch	1	1
Tool Shank Diameter	mm/inch	135 / 5.3	150 / 5.9
Applicable Carrier Weight	ton	18 ~ 21	25 ~ 30
	lbs	39,683 ~ 46,297	55,115 ~ 66,138
Noise Level	L _a (dB)	86	84

Medium duty range Heavy duty range

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MHA TOP TYPE

- Ready to work under any working sites!
- High quality & pround durability!
- Priority system for customer satisfaction!



• Standard Specification

Description / Model	UNIT	MHA 40 T	MHA 45 T	MHA 53 T	MHA 58 T	MHA 68 T	MHA75T
Operating Weight	Kg	80	100	196	206	298	375
	lbs	176	220	431	453	656	825
Setting Pressure	bar	140	140	150	150	160	180
	psi	2,030	2,030	2,175	2,175	2,320	2,611
Operating Pressure	bar	90 ~ 120	90 ~ 120	90 ~ 120	90 ~ 120	110 ~ 140	120 ~ 150
	psi	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,280 ~ 1,707	1,565 ~ 1,991	1,707 ~ 2,134
Oil Flow Range	l/min	15 ~ 25	20 ~ 30	25 ~ 40	25 ~ 50	40 ~ 70	50 ~ 90
	gal/min	4 ~ 7	5 ~ 8	7 ~ 11	6.5 ~ 13	10.5 ~ 18.5	13 ~ 24
Impact Rate	bpm	700 ~ 1,200	700 ~ 1,200	600 ~ 1,100	600 ~ 1,100	500 ~ 900	400 ~ 800
Hose Diameter	inch	1/2	1/2	1/2	1/2	1/2	1/2
Tool Shank Diameter	mm/inch	40 / 1.6	45 / 1.8	53 / 2.1	58 / 2.3	68 / 2.7	75 / 2.9
Applicable Carrier Weight	ton	0.5 ~ 1.5	1.2 ~ 3.0	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7	6 ~ 9
	lbs	1,102 ~ 3,306	2,645 ~ 6,613	5,511 ~ 9,920	5,511 ~ 9,920	8,818 ~ 15,432	13,227 ~ 19,841
Noise Level	L _a (dB)	85	90	89	89	89	88

Light duty range Medium duty range Heavy duty range

※ Above specification can be changed without any prior notice for improvement in quality

MHA 85T	MHA 100T	MHA 125T	MHA 135T	MHA 140T	MHA 150T	MHA 155T	MHA 165 S	MHA 175T
577	908	1,431	1,675	1,936	2,237	2,838	3,065	4,002
1,269	1,998	3,148	3,685	4,259	4,921	6,244	6,743	8,804
180	190	210	210	210	230	230	250	250
2,611	2,756	3,046	3,046	3,046	3,336	3,336	3,626	3,626
130 ~ 160	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180
1,849 ~ 2,276	2,134 ~ 2,418	2,176 ~ 2,466	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560	2,276 ~ 2,560
60 ~ 100	80 ~ 110	90 ~ 120	100 ~ 150	120 ~ 180	140 ~ 190	180 ~ 240	200 ~ 260	210 ~ 290
16 ~ 26.5	21 ~ 29	24 ~ 32	27 ~ 40	32 ~ 48	37 ~ 50	48 ~ 63	51 ~ 69	55 ~ 77
400 ~ 800	450 ~ 630	450 ~ 700	350 ~ 600	350 ~ 500	300 ~ 450	300 ~ 450	250 ~ 400	200 ~ 350
3/4	3/4	1	1	1	1	1 - 1/4	1 - 1/4	1 - 1/4
85 / 3.3	100 / 3.9	125 / 4.9	135 / 5.3	140 / 5.5	150 / 5.9	155 / 6.1	165 / 6.5	175 / 6.9
7 ~ 14	11 ~ 16	16 ~ 22	18 ~ 21	18 ~ 26	23 ~ 28	28 ~ 35	30 ~ 45	40 ~ 55
15,432 ~ 30,864	24,250 ~ 35,274	35,270 ~ 48,500	39,683 ~ 46,297	39,683 ~ 57,320	50,706 ~ 61,729	61,729 ~ 77,161	66,138 ~ 99,208	88,185 ~ 121,254
88	88	88	86	85	87	90	91	92

Light duty range Medium duty range Heavy duty range

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HB TOP TYPE

- Ready to work under any working sites!
- High quality & pround durability!
- Priority system for customer satisfaction!



Option Device

Auto lubricant system



- Auto lubricant system
- Auto lubricant system with its grease cartridges guarantee that breaker tool bushes receive the exact grease amount during its operation.
- This makes the demolition impact smoother and extends the bush & tool life.



• Standard Specification

Description / Model	UNIT	HB 20GT	HB 30GT
Operating Weight	Kg	1,702	2,384
	lbs	3,744	5,245
Setting Pressure	bar	210	230
	psi	3,046	3,336
Operating Pressure	bar	160 ~ 180	160 ~ 180
	psi	2,276 ~ 2,560	2,276 ~ 2,560
Oil Flow Range	l/min	100 ~ 150	150 ~ 210
	gal/min	27 ~ 40	40 ~ 56
Impact Rate	bpm	400 ~ 600	300 ~ 450
Hose Diameter	inch	1	1
Tool Shank Diameter	mm/inch	135 / 5.3	150 / 5.9
Applicable Carrier Weight	ton	18 ~ 21	25 ~ 30
	lbs	39,683~46,297	55,115~66,138
Noise Level	L _v (dB)	86	84

Medium duty range Heavy duty range

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INNERVAL-VALVE SYSTEM

Backhoe Loader Type Skid Steer Loader Type



Backhoe Loader (Side Type)



Backhoe Loader (Box Type)



Skid Steer Loader type

• Backhoe Loader type

Description / Model	UNIT	MHA 53BL	MHA 58BL	MHA 68BL	MHA 75BL
Operating Weight	BOX(Kg/lbs)	226 / 497	236 / 519	330 / 726	460 / 1,012
	TOP(Kg/lbs)	206 / 453	216 / 475	308 / 678	390 / 858
Setting Pressure	bar	150	150	160	180
	psi	2175	2175	2320	2611
Operating Pressure	bar	90 ~ 120	90 ~ 120	110 ~ 140	120 ~ 150
	psi	1,280 ~ 1,707	1,280 ~ 1,707	1,565 ~ 1,991	1,707 ~ 2,134
Oil Flow Range	l/min	25 ~ 40	25 ~ 50	40 ~ 70	50 ~ 90
	gal/min	7 ~ 11	6.5 ~ 13	10.5 ~ 18.5	13 ~ 24
Impact Rate	bpm	600 ~ 1,100	600 ~ 1,100	500 ~ 900	400 ~ 800
Hose Diameter	inch	1/2	1/2	1/2	1/2
Tool Shank Diameter	mm/inch	53 / 2.1	58 / 2.3	68 / 2.7	75 / 2.9
Applicable Carrier Weight	ton	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7	6 ~ 9
	lbs	5,511 ~ 9,920	5,511 ~ 9,920	8,818 ~ 15,432	13,227 ~ 19,841
Noise Level	L _n (dB)	89	89	89	88

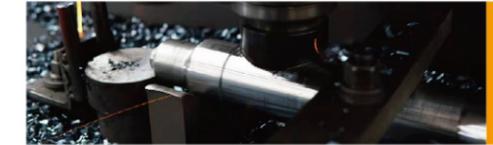
※ Above specification can be changed without any prior notice for improvement in quality

• Skid Steer Loader type

	MHA 53S L	MHA 58S L	MHA 68S L
	256 / 563	269 / 592	365 / 803
	226 / 497	236 / 519	343 / 755
	150	150	160
	2175	2175	2,320
	90 ~ 120	90 ~ 120	110 ~ 140
	1,280 ~ 1,707	1,280 ~ 1,707	1,565 ~ 1,991
	25 ~ 40	25 ~ 50	40 ~ 70
	7 ~ 11	6.5 ~ 13	10.5 ~ 18.5
	600 ~ 1,100	600 ~ 1,100	500 ~ 900
	1/2	1/2	1/2
	53 / 2.1	58 / 2.3	68 / 2.7
	2.5 ~ 4.5	3.0 ~ 4.5	4 ~ 7
	5,511 ~ 9,920	5,511 ~ 9,920	8,818 ~ 15,432
	89	89	89

PARTS

GENUINE PARTS



• Breaker Parts



TOOL SELECTION

USE THE RIGHT TOOL FOR THE RIGHT JOB

Breaker Tool (Chisel) is a wear part and tool consumption is the main causative for wear part costs. It is important to select an appropriate tool according to the nature of work and the characteristics of the object to break. Genuine MHA tools are special designed to best fits the MHA breakers.



AUTO GREASING

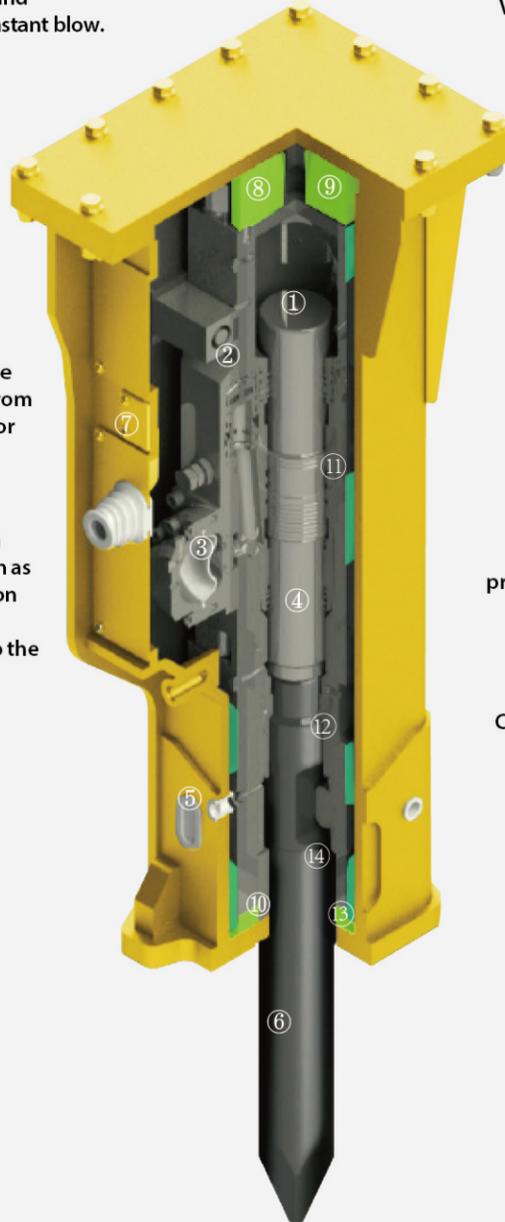
AUTO GREASING SYSTEM

* Continuous lubricating system increase life-time of Chisel and Bushings
* Economical Re-chargeable Grease cartridge reduce its maintenance cost



Structure & Features

- ① **Backhead**
Absorbs the piston's upward recoil and conduct energy recycling for the constant blow.
- ② **Guide Buffer**
Side vibration absorber and side suspension device to protect the powercell.
- ③ **Accumulator**
Rechargeable N2 gas accumulator to assist power stroke and to reduce the surge pressure and the spikes from the hydraulic circuit of the excavator
- ④ **Piston**
Most efficient design for maximum energy transfer and recoil reduction as Well as ideal match of tool and piston diameters.
It transfers highest shock wave into the breaking objects.
- ⑤ **Rod Pins**
Correct tool alignment and dispersion of tool wear.
- ⑥ **Chisel**
Heat treated and optimal length for efficient breaking.
- ⑦ **Auto Grease Refiller**
Compact auto grease refiller is equipped as an optional feature. Easy daily refill is serviced and continuous greasing is available as long as the breaker is operated.
(Not shown on the illustration)

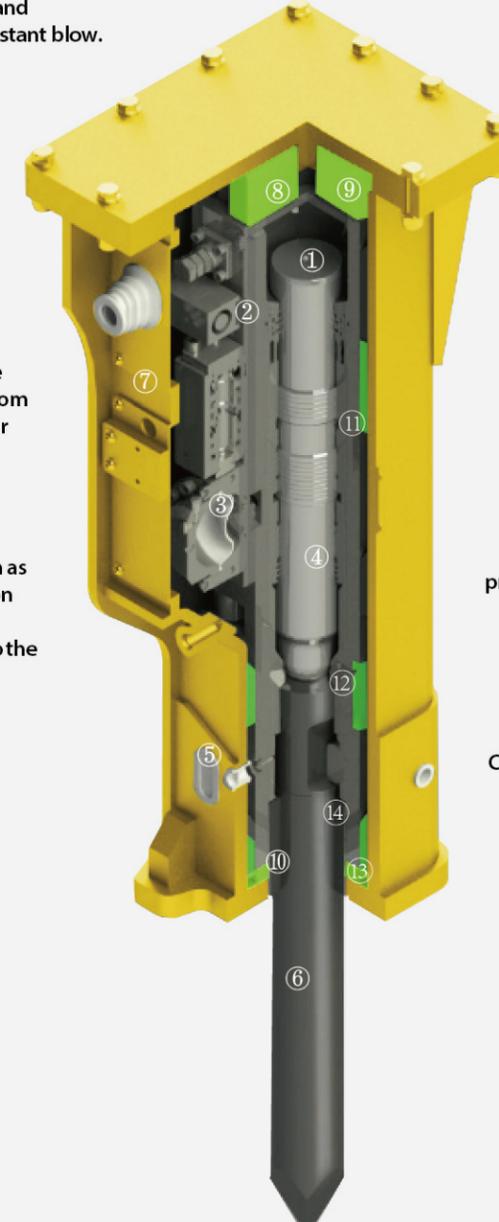


- ⑧ **Upper Damper**
Vibration absorber to prevent the impulses between the carrier and the breaker.
- ⑨ **Through Bolt**
Fully closed side (tie) rods enlarges the durability and the optimal load carrying capacity is designed.
- ⑩ **Down Damper**
Vibration absorber and suspension device to protect the powercell.
- ⑪ **Cylinder Design**
Square typed cylinder design brings optimum match between back head and front head as well as improves stable operation to increase the product durability and to reduce the unnecessary damages such as scratches.
- ⑫ **Thrust Ring**
Convenient one set and easier maintenance and serviceability without disassembly of powercell.
- ⑬ **Wearing Plates**
Employment of wear resistant plates between cylinder, front head and housing increases the overall product durability.
- ⑭ **Front Cover**
Convenience for replacement and protect the head.
(Not shown on the illustration)

Structure & Features



- ① **Backhead**
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- ② **Guide Buffer**
Side vibration absorber and side suspension device to protect the powercell.
- ③ **Accumulator**
Rechargeable N2 gas accumulator to assist power stroke and to reduce the surge pressure and the spikes from the hydraulic circuit of the excavator
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Most efficient design for maximum energy transfer and recoil reduction as Well as ideal match of tool and piston diameters.
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(Not shown on the illustration)



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- ⑫ **Thrust Ring**
Convenient one set and easier maintenance and serviceability without disassembly of powercell.
- ⑬ **Wearing Plates**
Employment of wear resistant plates between cylinder, front head and housing increases the overall product durability.
- ⑭ **Replaceable Tool Bushing**
Convenience for replacement and protect the head.
(Not shown on the illustration)

CARRIER RANGE

Table

Adaptable Base Carrier ranges for MHA Hydraulic Breakers



ITEM / Model	BOBCAT	CASE	CASE/POCLAIN	CAT	DOOSAN	HITACHI
MHA 40 (0.5~1.5 Tons)	520, 530, X122, X220, X119, X120, 440B, 443	CK08, 1818UNILD, CK1.3, 1825UNILD	CK08, CK13		SOLAR007, SOLAR0010	EX8, UE10, EX12, EX15
MHA 45 (0.8~3 Tons)	709, 8709, 440B 443, X119, X120, 81, 463, 322D, 533F	CK1.3, CK15, CK161, 825, 835B, 1818, 1830	CK08, CK13, CK15, CK25	301-5, 303-6, 301-8	SOLAR007, SOLAR0010	EX8, UE10, EX12, UX12, UE15, EX17, EX18, UE20, EX22
MHA 53 (2.5~4.5 Tons)	B100, B200, B250, 520, 533F, 543, 630, 631, 641, 643, 645 721, 753, 763, 773,	CK23, CK28, CK31, 40XT, 60XT, 1830	CK23, CK28, CK31, 40XT, 60XT, 1830	302-5, 303-5, 216, 226, 228	DH30, SOLAR30, SOLAR035, DSL602	EX25, EX38, EX30, UE30, EX33
MHA 58 (3~5.5 Tons)	X122, X123, X220, X225, X825, X320, X325, 325D, 328D, S175, S185					
MHA 68 (4~6 Tons)	883, 963, 943, 980, T300, 337D, 331(E), A220(S), T200(S), 341D, 442D, X335	840, 1845, CX35, 70XT, 75XT, 85XT	CK36	303CR, 304-5, 232, 236, 242, 246, 248, 262	DSL702, DSL802	EX34, EX40, UE40
MHA 75 (5~9 Tons)		90XT, 95XT, CX50, 550, 580, 590, 680CK, CK62	CK36CK50, CK62, 488C	416, 420, 426, 428, 430, 438, E70B, 5080, 252, 262, 304CR, 305CR, 307	DH50, SOLAR50, SOLAR555/55V, SOLAR70, DSL902	EX40U, EX45, EX50, UE50(e), EX58, EX60, UH02
MHA 85 (6~11 Tons)		WX90, 965, CX75, 621D	FC30, FY30, 488P FC30, FY30	446B, 307, 308, 931	SOLAR80, DH80W	UH04, UH043, EX80, EX90, ZAXIS80
MHA 100 (9~14 Tons)		WX120, CX130, CX135, 588P, 788F, 880, 888, 9010, 9020	CK60, CK61, 688	E110B, 205, 206, 311, 312, 314, 515, 206BFT, 212BFT	DH130, SOLAR130	EX100, EX110, EX120, EX130, EX135, UH051, UH053, UH061, UH063, ZAXIS120
MHA 125 (16~21 Tons)		WX150, CX160, 788RR, 1085	70CK, 80CK, 8CK 888	214B, E120B, 315, 525B, 535B	SOLAR170, DH170	
MHA 135 MHA 20G MHA 140 (18~26 Tons)		CX180, CX210, CX225, CX240, WX170, WX220, CX188FG, 9030, 9040, 1080, 1088, 125B	85CK, 90CK, 115PC, 125CK, 1088, 1188, 6988	215, 219, 224, 225, 318, 320, 321, 322, E/EL180, E/EL220, E/EL240, 517, 527, 545	DH200, SOLAR200, DH220, SOLAR220 DX225	EX200, EX210, EX220, EX225, EX230, H801/ 803, UH09(e), UH073, UH103, ZASIX200, ZASIS230
MHA 30G MHA 150 MHA 155 (25~36 Tons)		9045B, CX240, CX290, CX1288, 6050, 9050B, CX330 CX1188FG	1288, SC150L, RC200, 160CK/CL, 170CK-B	229, 325, E/EL300, 229D, 231, 330	DH280, DH320, DX300, SOLAR 290, SOLAR320, SOLAR330	ES270, EX280, UH121, UH123, UH143EX300, EX350, ZAXIS270, ZAXIS330
MHA 155 MHA 165 (35~48 Tons)		CX350, CX460, CX1288FG, 170C, 2200B, 9060	22CK/CL, 220CK.B	235, 330BL/CL, 345BL	SOLAR360, SOLAR 400, SOLAR450, SOLAR470, DH450	EX370, EX400, EX450, UH171, UH181
MHA 175 (45~60 Tons)			300CK	50ME, 245, 345, 350, 365		UH120, UH20, EX550, EX600, EX700

JCB	KOBELCO	KOMATS U	LIEBHERR	HYUNDAI	SANY	VOLVO (SAMSUNG)
801	SK007-2, SK013	PC05-1/5, PC05-6		R15, R17 R18	SY16 SY18	
801, 8015, 8016	SK007, SK09, SK013, SK13	PC05, PC07-2		R35 R15, R17 R18	SY26	EC14, EC15B EC20B
1CX, ROBOT 150/160/ 165/165/170/185	SK015, SK15, SK16, SK25	PC10, PC12, PC15, PC20, PC27		R25 R35,	SY35	EC30, EC25, ZL302C
ROBOT190	SK025, SK030, SK035, SK30, SK35	PC30, PW30, PE35 PC40, PC45,		HX555 R55 R60-9S	SY55 SY60	EC35, EC45
2CX, 3C/CX/D, ZL 70, ROBOT1105/ 1110, 407/408/409/ 410ZX	SK045, SK050, SK45, SK60, SK70, SK80, SK600, K903	PC50, PC60, PC75, PW75, PC80, PC90	L506/507/508/ 509/512/514	HX85	SY70 SY95	EC55, EC70, EW50, EW70, L20B/25B/30B/ 35B/40B/45B
4CX, 416HT	SK60MXIII, K904, 80CS, SK100	PW95	A308	ROBEX110-V II	SY95	BL74, L50D, 612, 616B
JS130, JS145, 805, 811, 812, 814, 5C/W	SK115, SK120, SK135, SK150, K120, K150, K904, K905	PC100, PW110, PC120, PC128, PC130, PW130	A/R902, R900, A/R901, R308, A310, A312, A314	ROBEX130W, ROBEX35140LC	SY125 SY135	EC130, EW130, SE130, SE130W EW140, 646, L60E, L70E
JS150, JS160, JS175	SK135, SK160 K150	PC150, PW150, PW170	A/R902, A/R900, R310, R312, A316	ROBEX170W, ROBEX180LC	SY155	EC140B, EC150, EW150, EW160, L90E
JS180, JS200, SJ210, JS220, JS240, 7B/C, 8C/D	SK270LC, SK290, SK300, SK320, K300, K912	PC180, PC200, PC210, PC220, PC228, PC230, PC240	A/R904, R912, A/R914, A/R921, A/R922, A924, A/R932, R941	HW80, ROBEX200W, R210LC-7, R220LC-9S, R250LC-9S	SY200 SY215, SY255,	EC200, EC210, EC230, EC240 SE210, EW230
JS330	SK270LC, SK290, SK300, SK320, K300, K912	PC250, PC280, PC300, PC350	A/R942LIT, A/R934, R924, R932LIT	HX100, R280LC/290LC 300LC/320LC/330LC /360LC	SY255, SY265, SY305, SY335,	EC280, EC290, EC300, SE280, SE350
JS460	SK330, SK400, SK480, K400, K914, K916	PC360, PC400, PC450	R944, R952, R954, R961, R962	R360LC, R420LC, R250LC	SY365, SY375, SY415	EC340, EC360, EC390, EC420, EC450, EC460
	SK600	PC600, PC650, PC750	A944, R962LIT, R964, R974	R500LC	SY485, SY550	EC620, EC650