

MOVING YOU **FURTHER**

HYUNDAI BREAKER SERIES



Breaker



Model		
	Standard	Premium
Mini Size	HEB010	HEB010P
	HEB020	HEB020P
	HEB030	HEB030P
	HEB040	HEB040P
Small Size	HEB050	HEB050P
	HEB060	HEB060P
	HEB100	HEB100P
Medium Size	HEB140S	HEB140P
	HEB220S	HEB220P
Large Size	HEB310	HEB310P
	HEB400	HEB400P
	HEB500	HEB500P
Super Size		HEB700P





BREAKERS

HEB SERIES

Maximizing productivity and reliability

Minimizing maintenance and downtime

Right tools for all carriers and applications



Consider AEM's tool energy rating

Why develop the tool energy rating

Assessing and comparing hydraulic breakers have never been easier or more accurate than the tool energy developed by the mounted breaker manufacture bureau(MBMB) of the AEM which is U.S based international trade group serving the business needs of construction equipment manufacturers and construction services providers. The AEM tool energy rating is accepted by hydraulic breaker manufacturers from Finland, France, Germany, Italy, Japan, Korea, Sweden and the United States. HYUNDAI CORE MOTION has been accredited to self-certify the tool energy rating obtained through test processes complying with "AEM Measuring Guide."

High impact energy by AEM tool energy rating

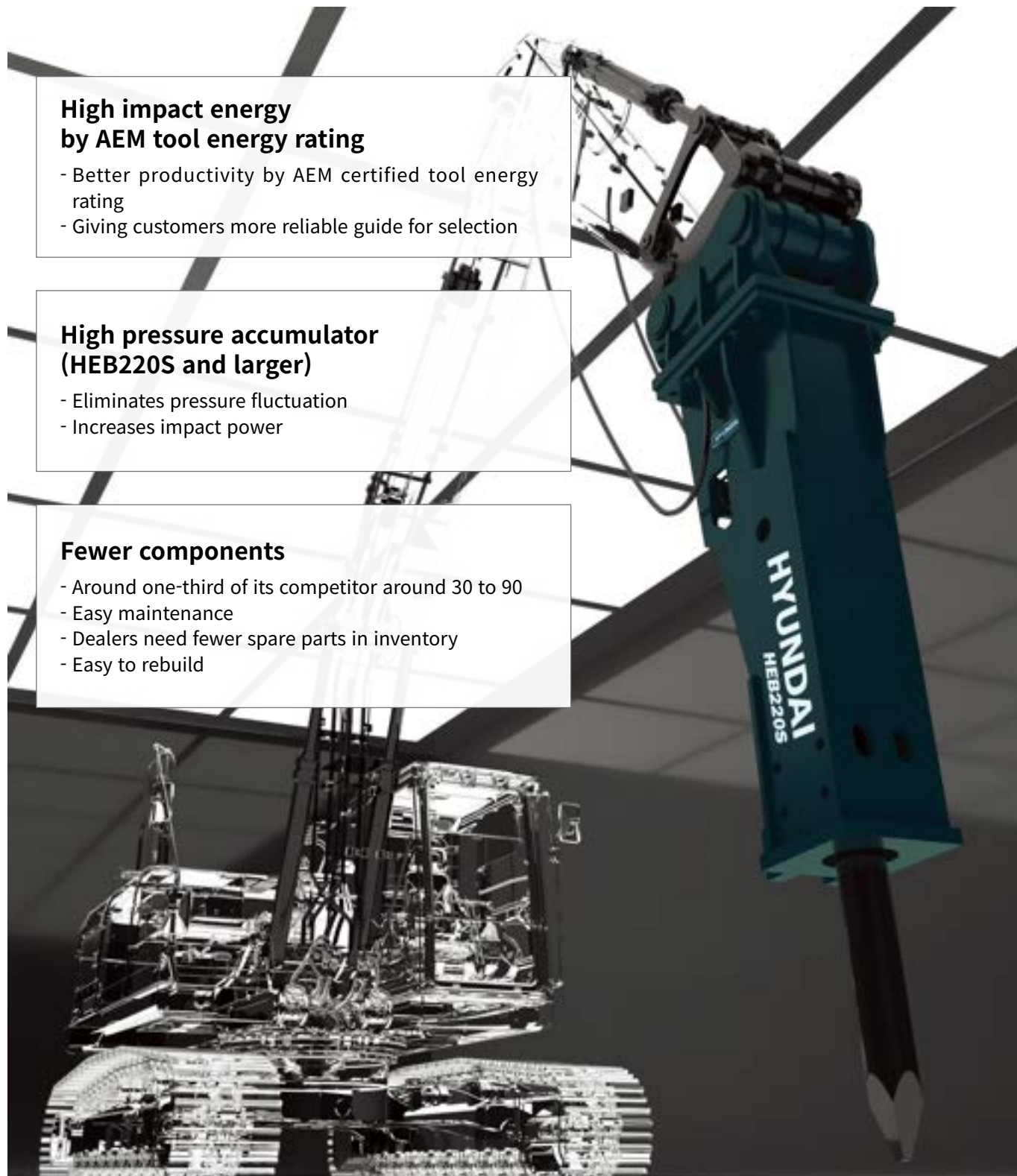
- Better productivity by AEM certified tool energy rating
- Giving customers more reliable guide for selection

High pressure accumulator (HEB220S and larger)

- Eliminates pressure fluctuation
- Increases impact power

Fewer components

- Around one-third of its competitor around 30 to 90
- Easy maintenance
- Dealers need fewer spare parts in inventory
- Easy to rebuild



ADVANCED TECHNOLOGY

Through bolt

- Reduces internal torsion stress to increase faster life

Full box enclosure

- No rigid side bolts
- Low maintenance cost
- Extremely durable welded structure
- Reduces noise
- Hammer is completely protected and quieter
- Perfect sealed enclosure by dust Protector & Seal plugs (premium series only)

Wide and light-weight cover

- Noise insulation
- Dust protection, Easy maintenance

Easy maintenance

- Fewer components
- Wide and appropriate opening

High quality working tool

- Optimized by high grade steel and heat treatment

Perfect cushion damper

- Optimal damping system made of high quality elastomer
- Minimizing recoil shock induced by impact
- Reduces noise and vibration

Unique valve design

- Lessens pressure fluctuation
- Less damage on carrier's pump

Long piston stroke

- Maximizes impact energy
- Minimizes recoil
- Eliminates mechanical springs
- Special heat-treated and hardened piston

Hardened rock dragger

- Optimized by high grade steel and heat treatment

BOX HOUSING TYPE

Prime series are silenced type breakers that are developed for environment and human health according to international trend of noise restriction.

By wearing a hard boots of reinforced rock dragger and bracket, prime series provides much innovative durability with maximum power than ever. The benefits of these series are dual speed control system, hard boots(HEB140S and larger), anti-blank firing function, auto stop & auto start and single high pressure accumulator(HEB220S and larger)



• APPLICATION

○ : Standard, △ : Option, × : N/A

Contents	HEB010/P		HEB020/P		HEB030/P		HEB040/P		HEB050/P		HEB060/P		HEB100/P		HEB140S	HEB140P	HEB220S	HEB220P	HEB310/P		HEB400/P		HEB500/P		HEB700P
Grade	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	P
Accumulator(o,x)	x		x		x		x		x		x		x		x		o		o		o		o		o
Dual speed control(o,x)	x		x		x		x		x		x		x		x		o		o		o		o		o
Anti-blank firing func.(o,x)	x		x		x		x		x		x		x		x		o		o		o		o		o
Under water(o,x)	x		x		x		x		x		x		x		x		o		o		o		o		o
Auto greasing kit (o,x)	x		x		x		x		x		x		x		x		△		△		△		△		△

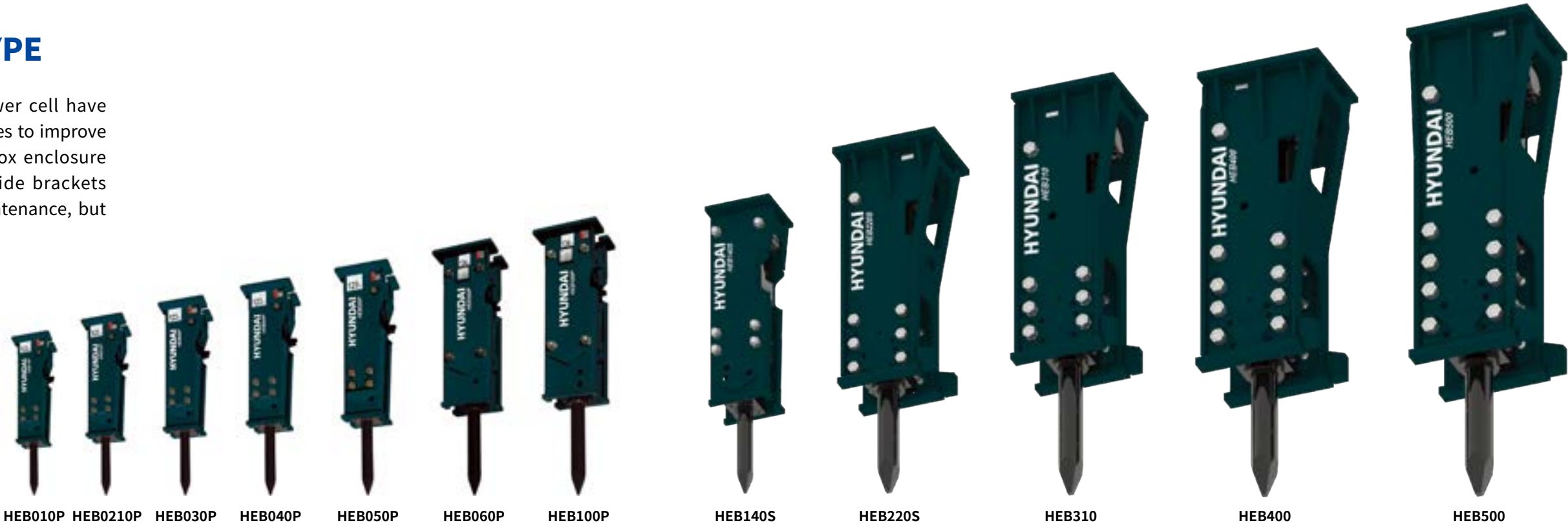
• SPECIFICATION

Specification		Unit	Grade	HEB010/P	HEB020/P	HEB030/P	HEB040/P	HEB050/P	HEB060/P	HEB100/P	HEB140S/P	HEB220S/P	HEB310/P	HEB400/P	HEB500/P	HEB700P	
Working weight		kg	S	106	106	129	161	299	370	504	691	1,530	2,109	2,843	3,598		
			P	116	116	144	243	314	468	552	1,148	1,799	2,461	3,433	4,119	6,484	
Overall length		mm	S	1,172	1,172	1,260	1,289	1,630	1,865	1,983	2,267	2,796	3,246	3,379	3,705		
			P	1,215	1,215	1,257	1,403	1,682	1,933	2,066	2,375	2,935	3,281	3,531	3,735	4,236	
Oil flow		lpm	S	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330		
			P	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330	320 ~ 420	
Operating pressure		bar	S	90 ~ 110	70 ~ 100	90 ~ 110	110 ~ 140	140 ~ 170	140 ~ 170	150 ~ 170	160 ~ 180	150 ~ 180	150 ~ 185	160 ~ 185	165 ~ 185		
			P	100 ~ 130	100 ~ 130	100 ~ 130	110 ~ 140	130 ~ 170	130 ~ 170	140 ~ 180	140 ~ 180	160 ~ 180	165 ~ 185	165 ~ 185	165 ~ 185	165 ~ 185	
Impact rate		low speed	bpm	S								350 ~ 500	310 ~ 450	300 ~ 410	250 ~ 370		
				P								380 ~ 700	330 ~ 500	310 ~ 490	330 ~ 450	250 ~ 370	280 ~ 370
		high speed	bpm	S	600 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	450 ~ 950	500 ~ 900	400 ~ 850	450 ~ 750	450 ~ 600	400 ~ 560	380 ~ 540	300 ~ 420	
				P	700 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	550 ~ 1,000	520 ~ 1,000	500 ~ 1,000	550 ~ 850	430 ~ 650	400 ~ 680	420 ~ 600	350 ~ 500	370 ~ 480
Chisel diameter		mm	S	45	45	50	55	68	75	93	98	135	150	165	175		
			P	45	45	50	58	68	80	93	105	135	150	165	180	205	
Applicable Carrier Range		ton	All	0.7 ~ 2.5	1.0 ~ 4.0	1.5 ~ 4.5	2.5 ~ 6.0	3.5 ~ 8.0	5.0 ~ 11.0	7.0 ~ 15.0	12 ~ 20	20 ~ 30	26 ~ 35	32 ~ 45	40 ~ 70	60 ~ 110	
(Optimal ragne)				0.7 ~ 1.2	1.0 ~ 2.5	1.5 ~ 3.0	2.5 ~ 4.5	4.0 ~ 6.0	6.0 ~ 8.0	8.0 ~ 12.0	12 ~ 16/12 ~ 18	20 ~ 26	26 ~ 32	32 ~ 40	40 ~ 60	65 ~ 85	

※ Specifications above are subject to change without notice for quality improvement.

OPEN HOUSING TYPE

The new design and color of power cell have been adapted for this standard series to improve protection of power cell in non-box enclosure breaker. Round open and long side brackets offer not only access for easy maintenance, but also better protection of power cell.



• APPLICATION ◯ : Standard, △ : Option, × : N/A

Contents	HEB010/P		HEB020/P		HEB030/P		HEB040/P		HEB050/P		HEB060/P		HEB100/P		HEB140S	HEB220S	HEB310	HEB400	HEB500
Grade	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	S	S	S	S
Accumulator	x		x		x		x		x		x		x		x	o	o	o	o
Dual speed control	x		x		x		x		x		x		x		x	o	o	o	o
Anti-blank firing func.	x		x		x		x		x		x		x		x	o	o	o	o
Under water	x		x		x		x		x		x		x		x	o	o	o	o
Auto greasing kit	x		x		x		x		x		x		x		x	△	△	△	△

• SPECIFICATION

Specification		Unit	Grade	HEB010/P	HEB020/P	HEB030/P	HEB040/P	HEB050/P	HEB060/P	HEB100/P	HEB140S	HEB220S	HEB310	HEB400	HEB500	
Working weight		kg	S	109	109	131	167	299	371	497	725	1,573	2,193	3,109	3,811	
			P	116	116	142	211	330	455	549						
Overall length		mm	S	1,181	1,181	1,270	1,316	1,635	1,850	1,985	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330	
			P	1,207	1,207	1,242	1,390	1,674	1,916	2,049						
Oil flow		lpm	S	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	2,270	2,829	3,285	3,430	3,749	
			P	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110						
Operating pressure		bar	S	90 ~ 110	70 ~ 100	90 ~ 110	110 ~ 140	140 ~ 170	140 ~ 170	150 ~ 170	160 ~ 180	150 ~ 180	150 ~ 185	160 ~ 185	165 ~ 185	
			P	100 ~ 130	100 ~ 130	100 ~ 130	110 ~ 140	130 ~ 170	130 ~ 170	170 ~ 180						
Impact rate		low	bpm	S								350 ~ 500	310 ~ 450	300 ~ 410	250 ~ 370	
		speed		P												
		high		S	600 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	450 ~ 950	500 ~ 900	400 ~ 850	450 ~ 750	450 ~ 600	400 ~ 560	380 ~ 540	300 ~ 420
		speed		P	700 ~ 1,200	700 ~ 1,200	550 ~ 1,000	550 ~ 1,000	550 ~ 1,000	520 ~ 1,000	500 ~ 1,000					
Chisel diameter		mm	S	45	45	50	55	68	75	93	98	135	150	165	175	
			P	45	45	50	58	68	80	93						
Applicable Carrier Range		ton	All	0.7 ~ 2.5	1.0 ~ 4.0	1.5 ~ 4.5	2.5 ~ 6.0	3.5 ~ 8.0	5.0 ~ 11.0	7.0 ~ 15.0	12 ~ 20	20 ~ 30	26 ~ 35	32 ~ 45	40 ~ 70	
(Optimal ragne)				0.7 ~ 1.2	1.0 ~ 2.5	2.5 ~ 4.5	2.5 ~ 4.5	4.0 ~ 6.0	6.0 ~ 8.0	8.0 ~ 12.0	12 ~ 16	20 ~ 26	26 ~ 32	32 ~ 40	40 ~ 60	

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SKIDSTEER LOADER

Skidsteer Loader series are developed for Skidsteer loader to meet the market requirement of higher impact energy and optimal performance.



BACKHOE LOADER

Backhoe Loader series are developed for Backhoe loader to meet the required design for transportation.



• SPECIFICATION

Specification		Unit	Grade	HEB040SL/PSL	HEB050BL/PBL	HEB060BL/PBL
Working weight		kg	S	276	278	352
			P	255	312	400
Overall length		mm	S	1,285	1,597	1,728
			P	1,352	1,585	1,767
Oil flow		lpm	S	50 ~ 75	35 ~ 65	45 ~ 90
			P	50 ~ 75	35 ~ 65	45 ~ 90
Operating pressure		bar	S	110 ~ 140	140 ~ 170	140 ~ 170
			P	110 ~ 140	130 ~ 170	130 ~ 170
Impact rate	low speed	bpm	S			-
			P			
	high speed		S	550 ~ 1,000	450 ~ 950	500 ~ 900
			P	550 ~ 1,000	550 ~ 1,000	520 ~ 1,000
Chisel diameter		mm	S	55	68	75
			P	58	68	80
Applicable Carrier Range		ton	All	2.5 ~ 8.0	3.5 ~ 8.0	5.0 ~ 11.0
(Optimal ragne)				4.0 ~ 6.0	4.0 ~ 6.0	6.0 ~ 8.0

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Features and benefits

Proven Working Principle (oil and gas assist)

- Pressurized nitrogen gas is the main power source, to operate with less demand on the carrier's hydraulic system.

Fewer Components

- Around one-third as its competitor, around 30 to 90 items depending on model
- Easy maintenance
- Dealers need fewer spare parts in inventory
- Easy to rebuild

Dual speed Control

- Control blow frequency according to hardness of rock

Anti-blank firing function

- Significantly reduces blank blow induced failures (HEB220S and larger)

Underwater application

- Allowing hammer submerged in water (HEB140P and larger)

Option

- Auto dispense of lubricating paste, each time hammer is operating

Swivel Joint

- Reduces vibration induced hose failure.

Centralized Lubricating system

- Enable to utilize centralized auto grease system

Increased life time of dampers and wear plates

- This gives longer maintenance interval.

Rugged Construction

- Jigsaw shaped main bracket design achieves better resilience from external force. This ensure sound and long lasting body structure.

BREAKER SELECTION GUIDE

Breaker Selection Guide

(applicable carrier range and minimum required hydraulic power)

Model		Weight of carrier in tonnes (t)																																Hydraulic power of carrier			
		1 2 3 4 5 6 7 8 10 12 14 16 18 20 22 24 26 28 30 35 40 45 50 60 70 80 90 100 110 120 130 140																																Minimum Oil Flow		Minimum Pressure	
		Weight of carrier in kilopounds (klbs)																																lpm	gpm	bar	psi
Mini Size	HEB010P	0.71.22.5 1.572.65.5																																15	(4.0)	160	(2,300)
	HEB020P	1.02.54.0 2.25.58.8																																20	(5.3)	180	(2,600)
	HEB030P	1.53.04.5 3.36.69.9																																25	(6.6)	180	(2,600)
	HEB040P	2.54.56.0 5.59.913.2																																30	(7.9)	180	(2,600)
Small Size	HEB050P	3.54.068 7.78.81318																																35	(9.2)	200	(2,900)
	HEB060P	56811 11131824																																45	(12)	210	(3,000)
	HEB100P	781215 15182633																																60	(16)	210	(3,000)
Medium Size	HEB140P	121820 264044																																80	(21)	220	(3,200)
	HEB220P	202630 445766																																130	(34)	220	(3,200)
Large Size	HEB310P	263235 577177																																170	(45)	230	(3,300)
	HEB400P	324045 718899																																200	(53)	230	(3,300)
	HEB500P	406070 88132154																																230	(61)	230	(3,300)
Super Size	HEB700P	606585110 132143187242																																320	(85)	230	(3,300)

This guide is valid for the normal excavators equipped with standard boom-arm.